





# Air Quality in Ontario

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**Appendix**

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## **INTRODUCTION**

This appendix is intended for use in conjunction with the annual report Air Quality in Ontario 1996. Appendix A briefly describes the provincial air monitoring network, the quality assurance and quality control procedures and data base. Appendix B provides a series of tables showing the station locations as well as a listing of the summary statistics including, means, maxima, percentile values and the number of exceedances of the Ontario criteria for each pollutant.

## **APPENDIX A - Monitoring Network Operations**

### **Network Description**

In 1971, the provincial air monitoring network consisted of 254 instruments: 166 continuous analyzers at 76 monitoring sites and 88 sites with high-volume samplers. By 1980, the provincial network had reached its maximum size at 450 instruments of which 268 were continuous analyzers at 106 sites and 182 high-volume samplers. During 1996, the network consisted of 223 continuous monitoring instruments at 81 sites, 78 high-volume samplers, 23 daily PM<sub>10</sub> samplers and 13 real-time PM<sub>10/2.5</sub> monitors.

Ministry regional boundaries were altered in 1996. Six regions were reduced to five. The former northeast and northwest regions were combined into one northern region with headquarters in Thunder Bay. Southeast region was renamed eastern region. MAP 1 shows the revised regional boundaries as a result of the realignment.

More than 60% of all air monitoring by the ministry is source-specific and is the principal responsibility of operations division. For the most part, the operation of the monitoring stations and the collection of air samples is conducted by the regional staff. Environmental monitoring and reporting branch operates the Greater Toronto Area (ambient stations) network and the mobile air monitoring units. The monitoring networks are classified by their functions: continuous air monitoring stations; non-continuous sampling sites; the toxic networks; and mobile air monitoring.

### **Quality Assurance and Quality Control**

In 1996, each region had an atmospheric and terrestrial effects unit responsible for the day-to-day air monitoring and maintenance.

Each day, the instruments are checked through a computerized telephone link by technicians confirming the automatic zero and span values (that is, a known value for a particular gas).

Regional technicians inspect and maintain the monitoring equipment and stations continually. If an instrument undergoes major servicing, the instrumentation and quality assurance unit will re-calibrate it.

Portable calibration equipment is used by regional staff. This equipment itself is re-calibrated at least twice per year.

There are other monitoring programs, such as those operated by the Lambton Industrial Society, Environment Canada and Ontario Hydro, which the ministry either audits or conducts comparisons with. It uses data from these services to judge provincial air quality.

The environmental monitoring and reporting branch operates a laboratory with gas reference standards that adhere to those of the U.S. National Institute of Standards and Technology (NIST) as well as to the pollution measurement division of Environment Canada.

Performance audits are conducted on the sulphur dioxide, nitrogen oxides/nitrogen dioxide, ozone and total reduced sulphur (as hydrogen sulphide) monitors approximately three times per year and on carbon monoxide monitors once per year.

Chemical analyses performed by the laboratory services branch are also subject to quality assurance and control.

The ambient air quality monitoring network undergoes constant maintenance to ensure a high standard of quality control.

Continuous real-time and particulate data are reviewed, assessed and validated constantly by regional staff and staff of the environmental monitoring and reporting branch.

Actions are taken immediately to correct anything that may affect the validity of the data.

These measures ensure that ambient air monitoring data are valid, complete, comparable, representative and accurate.

In 1996, continuous air monitoring instruments were given 689 performance audits. Approximately 84 per cent of the audits were found to be in the acceptable performance criterion , i.e. measured values were within 10 per cent of the standard For the remaining 16 per cent which fell outside the 10 per cent range, station log records and backup charts were consulted to adjust the data to reflect true ambient concentrations. As a result, the network for 1996 had 94.6 per cent valid data out of approximately 4 million data points.

## **Data Base**

The ambient air quality data used in this report are stored in the ministry's air quality information system (AQUIS). Approximately 4 million air pollution measurements are added to AQUIS yearly, with the vast majority representing Ontario's more heavily populated urban areas.

A statistical pattern test is used to identify data anomalies, such as unusual pollutant concentrations. Each pollutant has a predetermined pollutant concentration range based on historical data. Values outside this range are flagged for further investigation.

AQUIS data are divided into two major groupings: continuous (1-hour) measurements and daily (24-hour) measurements.

Hourly data are obtained from automated ambient air monitoring instruments which operate continuously. These produce an average measurement each hour for a possible total of 8760 measurements in a year.

SO<sub>2</sub>, SP (as COH), CO, NO<sub>x</sub>/NO/NO<sub>2</sub>, O<sub>3</sub> and TRS compounds are all measured hourly. A valid annual mean requires at least 5840 hourly readings or 67 per cent valid data. Typically the network yields approximately 95 per cent valid data.

The instruments which provide daily measurements from a 24-hour sampling period are usually operated on one, three or six-day sampling cycles. They measure TSP, PM<sub>10</sub>, lead, various trace metals, sulphate and nitrate.

For daily data, a valid annual mean requires at least two thirds of the total number of possible samples, i.e., a station operating on a 6-day sampling schedule would require at least 40 out of a possible 61 samples.

To be included in the 10-year trend analysis, a site must have valid annual means for at least 8 out of the 10 years 1987-1996. To be included in long term analysis a site must have a valid annual for at least 20 out of the 26-years, 1971-1996.

## APPENDIX B - Network Descriptive Tables and Annual Statistics

The entire continuous (hourly) network is summarized in Table A1 and Maps 2-8. The table gives station name, numerical identifier, and pollutants measured. The numerical identifier is the station (ID) number, the first digit of which identifies the geographic region in which the station is located.

The column headings for the continuous pollutants are as follows:

SO <sub>2</sub>	(sulphur dioxide)
SP	(suspended particles as measured by COH)
TRS	(total reduced sulphur compounds)
CO	(carbon monoxide)
NO <sub>2</sub>	(nitrogen dioxide)
NO <sub>x</sub>	(oxides of nitrogen)
NO	(nitric oxide)
O <sub>3</sub>	(ozone)
PM <sub>10</sub> /PM <sub>2.5</sub>	(real-time inhalable/respirable particles)
API	(air pollution index)
AQI	(air quality index)

The particulate (daily) network is summarized in Table A2 and Map 9. The table gives station name, numerical identifier, and pollutants measured. Numerals indicate the monitoring cycle frequency in days. Some additional codes are defined in the key at the top of the table. The column headings for the noncontinuous pollutants are as follows:

TSP	(total suspended particulate)
Cu	(copper in TSP)
Cr	(chromium in TSP)
Fe	(iron in TSP)
Mn	(manganese in TSP)
Ni	(nickel in TSP)
Pb	(lead in TSP)
V	(vanadium in TSP)
NO <sub>3</sub> <sup>-</sup>	(nitrate in TSP)
SO <sub>4</sub> <sup>2-</sup>	(sulphate in TSP)

The inhalable particulate (PM<sub>10</sub>) network is summarized in Table A3 and Map 10. This table gives the station location, parameters measured and frequency of sampling.

The meteorological network is summarized in Table A-4 and Map 11. This table gives station name, numerical identifier, meteorological parameters measured and the height of the measurements.

The 1996 statistical data for the various pollutants are provided in Tables A5 through A28. For selected metals in PM<sub>10</sub> and sulphate in PM<sub>10</sub> annual statistics are provided for 1994 to 1996 inclusive.

## **ABBREVIATIONS**

ID	- five digit provincial station identification number
TYP	- survey type
YR	- year monitoring began
LAT	- station latitude in degrees/minutes
LONG	- station longitude in degrees/minutes
ELEV	- elevation of sampling inlet (metres above ground)
INS	- insufficient data to compute relevant statistics

**TABLE 1 ONTARIO CONTINUOUS AIR MONITORING NETWORK FOR 1996**

T = DATA TELEMETERED YR = YEAR STATION BEGAN  
TYP = AMBIENT SURVEY, 1 SOURCE SPECIFIC SURVEY

CITY	STATION NAME	ID = STATION IDENTIFICATION NUMBER		ELEV - AIR INTAKE ABOVE GROUND		LONG = LONGITUDE(DEGREES MINUTES)		NOx/NO	PM <sub>10/2.5</sub>	TRS	API	AQI
		ID	TYP	YR	LAT	LONG	ELEV	SO <sub>2</sub>	CO	O <sub>3</sub>		
WINDSOR	WRIGHTSWATER ST	12007	I	84	42 17	83 06	4	T	T	T	T	T
WINDSOR	467 UNIVERSITY AV W COLLEGE/SOUTH ST	12008	A	69	42 10	83 03	8	T	T	T	T	T
WINDSOR	MOE WAKER PUMP STN, MIDDLE RD	13021	A	75	42 18	83 04	4	T	T	T	T	T
MERLIN	INVY40 (OPP LAMBTON GSS)	14016	A	69	42 48	82 13	4	T	T	T	T	T
COURTRIGHT	CENTENNIAL PK, FRONT ST/UN TRACKS CONCESSION RD 26	14064	A	76	42 59	82 24	3	T	T	T	T	T
SARNIA	MANDAUMIN LONGWOODS PARKHILL	14118	A	77	42 56	82 14	4	T	T	T	T	T
GRAND BEND	PIC BUILDING POINT BLAKE (CONSERVATION AREA)	15013	A	83	43 10	81 29	4	T	T	T	T	T
LONDON	900 HIGHLAND AVE CONCESSION RD 2 LOT A	15025	A	95	42 59	81 13	4	T	T	T	T	T
TIVERTON	EXPERIMENTAL FARM CHEAPSIDE RD 2 (KMS OF HWY 3)	18007	A	79	44 18	81 35	4	T	T	T	T	T
SIMCOE	NANTICOKE TOWNSLINE RD/CN 13	22094	I	85	42 52	80 08	4	T	T	T	T	T
TOWNSEND	PROVINCIAL PARK WALPOLE ST/P, SANDUSK RD RAINHAM RD (NEAR STEEL CO/GATE) WEST ALEX/HOMEWOOD ELMIRA	22095	A	79	42 35	80 23	4	T	T	T	T	T
LONG POINT	NANTICOKE ST/CHIPPAWA RIVER RD (NEAR STEEL CO/GATE) MAIN ST/W HWY 433	22096	A	90	42 26	80 30	5	T	T	T	T	T
ST CATHARINES	ARGYLE/CRES ST/CHIPPAWA RIVER RD VICKERS RD/FAST 8TH ST MAIN ST/W HWY 433	27065	A	87	43 10	79 14	4	T	T	T	T	T
NIAGARA FALLS	CHIPPAWA RIVER RD ELGIN/KELLY	27072	A	93	43 08	79 05	5	T	T	T	T	T
CHIPPWA	ELGIN/KELLY	28028	A	79	43 04	79 04	6	T	T	T	T	T
GUELPH	BARTON/VENTWORTH 467 BEACH BLVD NASH ROD/KENTLEY DR VICKERS RD/FAST 8TH ST	29002	I	69	43 16	79 51	4	T	T	T	T	T
HAMILTON	MAIN ST/W HWY 433	31013	A	90	43 19	79 23	3	T	T	T	T	T
HAMILTON	JJ CASE PIER 25/BEACH STRIP HOMESIDE QUEEN'S UNIVERSITY OSGOODIE LAWRENCE/KENNEDY	29947	I	95	43 27	79 78	4	T	T	T	T	T
HAMILTON	SCARBORO	31003	A	70	43 45	79 16	4	T	T	T	T	T
NORTH YORK	HENDON AVE (YONGE ST/FINCH AVE) FILMCREST RD (CENTENNIAL PK) EVANS/ARNOLD AV CLEARVIEW HEIGHTS HWY 7/NORTH SHORE BLVD E	34020	A	88	43 47	79 25	5	T	T	T	T	T
ETOBICOKE	YORK	35003	A	69	43 39	79 35	5	T	T	T	T	T
YORK	MEADOW PK, APPLE LANE C C SIDER ROAD 10 CORNERS 8	36010	I	88	43 42	79 29	5	T	T	T	T	T
BURLINGTON	BRONTE RD/ROWBURN FRES PS, RUTSON RD/Olive AV QUEENSWAY WHIRLWIND ST MEADOW PK, APPLE LANE C C SIDER ROAD 10 CORNERS 8	44008	I	79	43 19	79 48	5	T	T	T	T	T
OAKVILLE	OSHAWA MISSISAUGA EGERT	44015	I	80	43 24	79 44	5	T	T	T	T	T
MISSISSAUGA	QUEENSWAY WHIRLWIND ST MEADOW PK, APPLE LANE C C SIDER ROAD 10 CORNERS 8	45025	A	77	43 53	78 51	5	T	T	T	T	T
MISSISSAUGA	46117	I	87	43 34	79 37	5	T	T	T	T	T	T
EGERT	47037	A	95	44 09	79 51	4	T	T	T	T	T	T

**TABLE 1 ONTARIO CONTINUOUS AIR MONITORING NETWORK FOR 1996**

CITY	STATION NAME	ID	TYP	VR	LAT	LONG	ELEV (m)	SO <sub>2</sub>	COH	CO	ELEV * AIR INTAKE ABOVE GROUND LAT - LATITUDE(DEGREES MINUTES) LONG - LONGITUDE(DEGREES MINUTES)			TRS	API	AQI	
											LATITUDE(DEGREES MINUTES)		LONGITUDE(DEGREES MINUTES)				
STOFFFVILLE	HWY47/E OF HWY48	48002	A	74	43.58	79.16	5	T	T	T	T	T	T	T	T	T	
DORSET	HWY 17/PAINT LAKE ROAD	49010	A	81	45.13	78.56	3	T	T	T	T	T	T	T	T	T	
OTTAWA	MCD ODS, RIDEAU/URTBURG ST	51001	A	71	45.26	75.41	4	T	T	T	T	T	T	T	T	T	
CORNWALL	DALTON STREET	52020	A	88	44.14	76.31	5	T	T	T	T	T	T	T	T	T	
CORNWALL	MEMORIAL PK, BEDFORD/THIRD STS	56051	A	70	45.01	74.44	4	T	T	T	T	T	T	T	T	T	
PETERBOROUGH	SCHOOL, 415 SECOND ST W	56068	I	75	45.01	74.44	6	T	T	T	T	T	T	T	T	T	
IRVINE	MORE LANSDOWNE ST	59006	A	78	44.16	78.72	7	T	T	T	T	T	T	T	T	T	
FORT FRANCIS	35 VAN HORNE AV	61027	I	84	49.47	92.50	15	T	T	T	T	T	T	T	T	T	
FORT FRANCIS	PORTAGE/CHURCH ST.	62010	I	76	48.37	93.24	4	T	T	T	T	T	T	T	T	T	
FORT FRANCIS	CEMETERY, COLONIZATION RD W	62012	I	76	48.37	93.25	5	T	T	T	T	T	T	T	T	T	
INTL FALLS	U.S. CUSTOMS BUILDING	62045	I	96	48.36	93.24	5	T	T	T	T	T	T	T	T	T	
FORT FRANCIS	EIGHT ST CORNWALL AVE	62047	I	91	48.37	93.24	4	T	T	T	T	T	T	T	T	T	
FORT FRANCIS	LA VERNDE HOSPITAL	62051	I	90	48.36	93.23	3	T	T	T	T	T	T	T	T	T	
MARATHON	WATER TOWER	63013	I	91	48.43	86.23	4	T	T	T	T	T	T	T	T	T	
THUNDER BAY	CANCAR, MONTREAL ST	63046	I	76	48.21	89.18	3	T	T	T	T	T	T	T	T	T	
RED ROCK	RECREATION CENTRE	63084	I	81	48.57	88.15	7	T	T	T	T	T	T	T	T	T	
TERРАCE BAY	S/T MARTIN SCHOOL	63090	I	81	48.47	87.06	8	T	T	T	T	T	T	T	T	T	
CLOUD RIVER	TERRACE HEIGHT DR	63092	I	81	48.47	87.04	4	T	T	T	T	T	T	T	T	T	
THUNDER BAY	CLOUD RIVER	63120	A	82	48.09	89.27	4	T	T	T	T	T	T	T	T	T	
MTC 6.5 JAMES ST S	MTC 6.5 JAMES ST S	63130	A	86	48.47	89.17	3	T	T	T	T	T	T	T	T	T	
SAULT STE MARIE	WA MERRIFIELD SCHOOL	71068	A	87	46.32	84.71	3	T	T	T	T	T	T	T	T	T	
NAWA	SUPERIOR AVE	71077	I	94	47.59	84.58	5	T	T	T	T	T	T	T	T	T	
NORTH BAY	FALCONBRIDGE ROAD	71078	I	79	46.19	79.27	4	T	T	T	T	T	T	T	T	T	
SUDBURY	SPARKS STREET	71012	I	52	46.31	80.57	4	T	T	T	T	T	T	T	T	T	
SUDBURY	SKAFOO HAMMER	71013	I	73	46.39	80.57	5	T	T	T	T	T	T	T	T	T	
SUDBURY	WATER TANK ASH ST	71016	I	69	46.30	81.00	3	T	T	T	T	T	T	T	T	T	
CONSBY	GOVERNMENT ROAD/EDWARD ST	71028	I	74	46.29	80.51	4	T	T	T	T	T	T	T	T	T	
GARSON	FALCONBRIDGE ROAD	71065	I	76	46.34	80.51	4	T	T	T	T	T	T	T	T	T	
NEW SUDBURY	SPARKS STREET	71075	I	76	46.31	80.57	4	T	T	T	T	T	T	T	T	T	
SUDBURY	LONG LAKE ROAD (VILLA LOYOLA)	71096	I	80	46.24	81.01	4	T	T	T	T	T	T	T	T	T	
SUDBURY	MIKKOLA U/HAMILTON SCHOOL)	71201	I	82	46.25	81.07	4	T	T	T	T	T	T	T	T	T	
RAYSIDE	SCIENCE NORTH	71203	A	84	46.28	80.59	15	T	T	T	T	T	T	T	T	T	
COPPER CLIFF	ST LAURENT/REGIONAL RD	71206	I	85	46.36	81.06	4	T	T	T	T	T	T	T	T	T	
SUDBURY	MARKET STREET	71218	I	87	46.28	81.04	4	T	T	T	T	T	T	T	T	T	
SUDBURY	1412 STEPHEN STREET	71225	I	90	46.28	81.00	4	T	T	T	T	T	T	T	T	T	
SUDBURY	DOZZI PARK	71228	I	93	46.28	81.02	4	T	T	T	T	T	T	T	T	T	
<b>TOTALS:</b>												52	34	20	43	28	13
<b>LEGEND:</b>																	
SO <sub>2</sub> - Sulphur Dioxide	PM <sub>10/24</sub> : - Real-time Inhalable/Respirable Particles																
COH - Coefficient of Haze	TRS : Total Reduced Sulphur																
CO - Carbon Monoxide	AQI - Air Pollution Index																
O <sub>3</sub> - Ozone	AQI - Air Quality Index																
NO <sub>x</sub> - Nitrogen Oxide																	
NO <sub>2</sub> - Nitric Oxide																	
NO <sub>x</sub> - Oxides of Nitrogen																	

**TABLE 2 ONTARIO NONCONTINUOUS AIR MONITORING NETWORK FOR 1996**

SIX-1 DIGITS - CYCLE DURATION IN DAYS 10) STATION IDENTIFICATION NUMBER	STATION NAME	TYPE A AMBIENT SURVEY, 1 SOURCE SPECIFIC SURVEY 1 AND 4 LATITUDE (DEGREES MINUTES)				FLUX: AIR INTAKE HEIGHT ABOVE GROUND LONG + LONGITUDE (DEGREES MINUTES)										
		ID	TYP	YR	LAT	LONG	ELEV (M)	TSP	Cr	Cu	Fe	Mn	Ni	Pb	V	NO <sub>x</sub>
SI MARYS 1-A-SALLE	109 THOMAS ST BEACHL AND HWY 18 WRIGHT/WAHLER ST	11001 12006 12007 12008 12009	I A I A A	79 83 84 70 71	43 15 42 14 42 17 41 29 42 20	81 09 83 06 83 06 81 03 82 56	3 6 4 6 2	6 6 6 6 6								
WINDSOR HILL AT PLATEAU, 3665 W AND HILL ST E SENAUGH ST/HWY 18/PROSPECT ST	12011 12013 12015 12016 12016	I A I A A	88 71 71 75 77	42 19 42 19 42 17 42 18 42 19	81 60 81 60 81 05 81 05 82 59	5 6 5 4 4	6 6 6 6 6									
WINDSOR COLLEGE/SOUTH ST 1802 GEORGIA AV	12016 12016	A A	77 77	42 19 42 19	82 59 82 59	4	6	6	6	6	6	6	6	6	6	6
WINDSOR 3225 CALIFORNIA ST AMHERSTBURG 415 IRVINE ST DELI ST (EAST END) ANH KHUONG COLLIERS/ENTRE	12017 12018 12065 12055 12058	A A I I I	77 78 81 91 93	42 16 42 17 42 08 42 07 42 17	83 02 83 01 81 07 83 06 81 61	4 4 11 1 5	6 6 6 6 6									
WINDSOR 2335 DOUGALL AVE (theatrecentre Centre) 1511 CRAWFORD ST (City Yard) GENERAL HOSPITAL, 220 HILLION ST HWY 40 (OPP LAMBTON GS) R.R #1 (W.O.H. HOUSE)	12060 12061 14001 14016 14019	I I A A I	95 95 62 69 78	42 17 42 17 42 58 42 48 42 53	83 01 83 02 82 24 82 29 81 09	7 6 22 4 1	6 6 6 6 6									
CORUNNA 57 CLARK HILL HWY 10 SARNIA DAVIDFRONT ST MILITARY GROUNDS, KINGSTON CIVIC EDGWARE RD (SNW VARTA PLL)	14050 14061 14151 15001/025 15008	A A A A I	76 76 79 70 81	42 53 42 53 42 59 42 59 42 48	82 27 82 27 82 24 82 24 81 09	4 1 4 4 1	6 6 6 6 6									
LONGWOODS HILLACHVILLE HILLACHVILLE INNSHORN TAMBO	15009 17014 17015 17020 17021	A A A A A	83 74 89 81 83	42 51 43 05 43 05 43 04 43 06	81 29 80 50 80 50 81 49 81 58	2 2 4 4 1	6 6 6 6 6									
NANTICORE NANTICORE NANTICORE KELCHNER KELCHNER	17024 22004 22004 26016	I I I I	84 84 96 96	42 50 42 50 80 05 43 25	80 02 80 05 80 05 80 30	4 4 4 2	6 6 6 6									

**TABLE 2 ONTARIO NONCONTINUOUS AIR MONITORING NETWORK FOR 1996**

SINGLE DIGITS = CYCLE DURATION IN DAYS ID = STATION IDENTIFICATION NUMBER												TYP = A= AMBIENT SURVEY, 1= SOURCE SPECIFIC SURVEY LAT = LATITUDE(DEGREES MINUTES)												ELEV = AIR INTAKE HEIGHT ABOVE GROUND LONG = LONGITUDE(DEGREES MINUTES)											
STATION NAME	ID	TYP	VIR	LAT	LONG	ELEV	(ft)	CR	Cu	Fe	Mn	Ni	Pb	V	NO	SO <sub>2</sub>																			
ST. CATHARINES WILLAND PORT COBINE- THOROLD NIAGARA FALLS	71 KING ST 317 ALBERT/DEVON ST DAVISFAZER 185 QUEEN ST S SUP GRINDNS, STANLEY AV	27008 27045 27047 27052 27055	A 1 1 1 1	87 78 79 82 82	43 10 42 58 42 51 43 07 43 08	79 15 79 15 79 15 79 12 79 05	12 1 1 1 4	6 6 6 6 6	6 6 6 6 6	6 6 6 6 6	6 6 6 6 6	6 6 6 6 6	6 6 6 6 6	6 6 6 6 6	6 6 6 6 6																				
NIAGARA FALLS HAMILTON HAMILTON HAMILTON HAMILTON	HNPY 05/STANLEY AV ELGINRELLY KINLAWORTH III BURLINGTON/LIFDS BURLINGTON/WELLINGTON	27072 29080 29099 29011 29012	A A A 1 1	93 88 69 73 66	43 06 43 15 43 15 43 16 43 15	79 05 79 52 79 49 79 49 79 50	5 4 6 5 7	6 6 6 6 6	6 6 6 6 6	6 6 6 6 6	6 6 6 6 6	6 6 6 6 6	6 6 6 6 6	6 6 6 6 6	6 6 6 6 6																				
HAMILTON HAMILTON HAMILTON HAMILTON HAMILTON	CHATAMURD BARTON/NW NWORTH BAYNAN ST 467 BEACH RD MASH/REILLY DR	29017 29025 29098 29102 29105	1 1 1 1 A	69 69 83 85 85	43 15 43 16 43 15 43 17 43 13	79 54 79 51 79 53 79 47 79 46	5 4 23 4 4	6 6 6 6 6	6 6 6 6 6	6 6 6 6 6	6 6 6 6 6	6 6 6 6 6	6 6 6 6 6	6 6 6 6 6	6 6 6 6 6																				
GALT/NSVHL HAMILTON HAMILTON HAMILTON HAMILTON	OFIELD RD/HAWY 5 GERTRUD/DIP NEW VICKERS/ROSE/1811 ST MAIN ST/W HWY 403 MORLEY ST/PARKDALE AV	29111 29113 29114 29118 29119	1 1 A A 1	86 86 85 85 86	43 18 43 15 43 15 43 15 43 15	79 59 79 49 79 49 79 54 79 47	1 4 3 1 4	6 6 6 6 6	6 6 6 6 6	6 6 6 6 6	6 6 6 6 6	6 6 6 6 6	6 6 6 6 6	6 6 6 6 6																					
HAMILTON HAMILTON HAMILTON HAMILTON	DUNDUR/ST YORK ALBRIGHT/RDMT ALBION RD KILFAR/COEUR D'ALE BRUCE PS, 51 LARCHMOUNT AV MOSLI/LESIE STS	29122 29135 29143 31045 31058	A A A 1 1	87 87 92 86 73	43 16 43 13 43 24 43 40 43 40	79 53 79 48 79 76 79 20 79 20	10 8 4 1 5	6 6 6 6 1	6 6 6 6 1	6 6 6 6 1	6 6 6 6 1	6 6 6 6 1	6 6 6 6 1	6 6 6 6 1																					
TORONTO TORONTO MISSISSAUGA MISSISSAUGA	A.R CLARKE CO 611 EASTERN AVE. WORKS LEIF, 138 HAMILTON AV BAY/GROSVENOR MEADOW PARK, APPEL LANE CC	31065 31082 31103/3103 466347 46117	1 1 A A 1	87 74 81 86 87	43 40 43 40 43 40 43 40 43 31	79 20 79 21 79 23 89 16 79 36	12 5 1 2 4	1 1 6 6 6	1 1 6 6 6	1 1 6 6 6	1 1 6 6 6	1 1 6 6 6	1 1 6 6 6	1 1 6 6 6																					
FORT FRANCES THORNTON MISSISSAUGA	CEMETERY/COLONIZATION RD W LEGION BLDG 250 CHURCH ST CANCAN MONTREAL ST RE4 MISSION RD MLC 615 JAMES ST S POPMHOUSE, DONNEY ST SAULT STE MARIE	6/2012 6/2015 6/046 6/121 6/100 7/042	1 1 1 1 A 1	76 74 81 95 86 75	48 37 48 36 48 21 48 21 48 21 46 11	91 25 91 31 89 18 89 16 89 17 84 21	5 9 1 2 1 2	6 6 6 6 6 6	6 6 6 6 6 6	6 6 6 6 6 6	6 6 6 6 6 6	6 6 6 6 6 6	6 6 6 6 6 6																						

**TABLE 2 ONTARIO NONCONTINUOUS AIR MONITORING NETWORK FOR 1996**

SINGLE DIGITS = CYCLE DURATION IN DAYS ID = STATION IDENTIFICATION NUMBER CITY	STATION NAME	TYPE = A - AMBIENT SURVEY; 1 SOURCE SPECIFIC SURVEY TA = AVERAGE (DEGREES MINUTES)			ELEV = AIR INTAKE HEIGHT ABOVE GROUND LONG., LONGITUDE (DEGREES, MINUTES)												
		ID	TYPE	VR	LAT	LONG	ELEV	TSP	Cr	Cu	Fe	Mn	Ni	Pb	V	No,	SO <sub>4</sub>
SAULT STE MARIE	LAND OFFICE, QUILIN ST	71049	A	75	-46.11	84.20	6	6	6	6	6	6	6	6	6	6	6
SAULT STE MARIE	WIN MERRIFIELD SCHOOL	71068	A	87	46.32	84.21	1	6	6	6	6	6	6	6	6	6	6
THAMES	TRIMBLY ST (E OF QUIRION)	72083	I	90	49.41	81.38	2	6									
THAMES	KAP-SIG-IWAN ROAD	72102	I	94	47.49	79.51	3	6									
THAMES	KING ST	72103	I	94	47.50	79.53	3	6									
FENCH HILL	HOSPITAL	72107	I	94	47.85	79.88	3	6	6	6	6	6	6	6	6	6	6
SUDBURY	19 LIGAR ST	77026	A	72	46.30	81.00	8	6	6	6	6	6	6	6	6	6	6
COPPER CLIFF	PUMPHOUSE, NICKEL ST	77030	I	76	46.28	81.04	5	6	6	6	6	6	6	6	6	6	6
<b>TOTALS:</b>							79	33	33	33	33	33	33	33	33	33	20
<b>LEGEND:</b>																	
TSP = Total Suspended Particles																	
Fe = Iron																	
Mn = Manganese																	
Cd = Cadmium																	
Cr = Chromium																	
Cu = Copper																	
No = Nitrate																	
SO <sub>4</sub> = Sulfate																	
Pb = Lead																	

**TABLE 3 ONTARIO INHALABLE PARTICLE (PM<sub>10</sub>) NETWORK FOR 1996**

ID - STATION ID    YR - YEAR MONITORING BEGAN;  
ELEV - AIR INTAKE HEIGHT ABOVE GROUND (METERS)

LAT - LATITUDE(DEGREES,MINUTES); LONG - LONGITUDE(DEGREES,MINUTES)  
TYPE = A - AMBIENT SURVEY; 1 - SOURCE-SPECIFIC SURVEY

CITY	STATION NAME	ID	YR	Type	ELEV		IP	Cu	Fe	Mn	Pb	Cr	Cd	V	Ni	SO <sub>4</sub>
					LAT	LONG										
WINDSOR	WRIGHT/WATER STREET	128067	90	A	42°17'	82°16'	4	6	6	6	6	6	6	6	6	6
WINDSOR	467 UNIVERSITY AV/WEST	128208	89	A	42°19'	83°02'	8	6	6	6	6	6	6	6	6	6
WINDSOR	365 WYANDOTTE ST E	128113	92	A	42°19'	83°00'	6	6	6	6	6	6	6	6	6	6
LONDON	801 COMMISSIONERS RD E	128116	90	A	42°57'	81°13'	4	6	6	6	6	6	6	6	6	6
NANTICOKE	WALPOLE SPS, SANDUSK RD	231044	92	I	42°50'	80°02'	4	6	6	6	6	6	6	6	6	6
ST CATHARINES	KING ST/EN ST	231008	91	A	43°10'	79°15'	12	6	6	6	6	6	6	6	6	6
THOROLD	185 QUEEN ST, SOUTH	231052	90	A	43°15'	79°12'	1	6	6	6	6	6	6	6	6	6
HAMILTON	ELGINSTRALY STREET	231060	90	A	43°15'	79°52'	4	6	6	6	6	6	6	6	6	6
HAMILTON	BEACHWOOD	231062	89	I	43°17'	79°47'	4	6	6	6	6	6	6	6	6	6
HAMILTON	GRIFFITH/DUFFIN STREET	231113	90	I	43°15'	79°49'	4	6	6	6	6	6	6	6	6	6
HAMILTON	BUCHANAN PARK PS	231224	92	A	43°14'	79°53'	4	6	6	6	6	6	6	6	6	6
TORONTO	HAY ST/GROSVENOR AVE	311127	89	A	43°40'	79°23'	3	6	6	6	6	6	6	6	6	6
SCARBOROUGH	KENNEDY RD/LAWRENCE AVE	311127	90	A	43°45'	79°16'	1	6	6	6	6	6	6	6	6	6
ETOBICOKE	F.VANSARD AVENUE	311127	90	A	43°37'	79°31'	1	6	6	6	6	6	6	6	6	6
OAKVILLE	BRONFELD/RADSBURG TRAIL	431127	92	I	43°24'	79°44'	5	6	6	6	6	6	6	6	6	6
MISSISSAUGA	MEADOWOOD PK, APPLE LANE C.C.	461127	93	A	43°31'	79°36'	1	6	6	6	6	6	6	6	6	6
CORNWALL	MEMORIAL PK, BEDFORD/THIRD STS	560151	92	A	45°01'	74°44'	4	6	6	6	6	6	6	6	6	6
THUNDERBAY	250 CHURCH STREET	621115	92	I	48°36'	93°23'	9	6	6	6	6	6	6	6	6	6
Sault Ste. Marie	615 JAMES ST, SOUTH	621201	89	A	48°23'	89°17'	4	6	6	6	6	6	6	6	6	6
Sault Ste. Marie	PUMPKIN/BONNEY STREET	713142	89	I	46°31'	84°23'	2	6	6	6	6	6	6	6	6	6
W.M. MERRIFIELD SCHOOL	71168	90	A	46°12'	84°21'	3	6	6	6	6	6	6	6	6	6	6
SUDBURY	LISGAR ST.	712126	91	A	46°29'	80°59'	8	6	6	6	6	6	6	6	6	6
COPPER CLIFF	MARKE'S STREET	725170	96	I	46°38'	81°04'	4	6	6	6	6	6	6	6	6	6
THIENS							31	21	21	21	21	21	21	21	21	21

Notes: Samplers operate on a 6-day sampling cycle

**LEGEND:**

IP - Inhalable Particle

Cu - Copper

Fe - Iron

Mn - Manganese

Cr - Chromium

Cd - Cadmium

V - Vanadium

Ni - Nickel

SO<sub>4</sub> - Sulphate

Pb - Lead

**TABLE 4 ONTARIO METEOROLOGICAL NETWORK FOR 1996**

ID - STATION ID NUMBER	YR - YEAR MONITORING BEGAN	T - TELEMETRY	LAT - LATITUDE(DEGREES,MINUTES)	LONG - LONGITUDE(DEGREES,MINUTES)										
CITY	STATION NAME	ID	YR	LAT	LONG	WS1	HT1	WS2	HT2	WS3	HT3	TEM	DT1	DT2
Windsor	Wright/Water St.	12097	84	42.17	82.16	T	10	40	T	T	T	T	T	T
Metrop.	KOE Water Pump Ssn. Middle Rd	13021	77	42.15	82.13	T	9	T	T	T	T	T	T	T
Courtright	Hwy 40 (OPP Lambton GS)	14016	75	42.48	82.29	T	10	T	30	T	90	T	T	T
Parkhill	Pine Building	15013	83	43.10	81.41	T	10	T	25	T	T	T	T	T
London	800 Commissioners St. (Effy Plant)	15018	86	42.57	81.13	T	T	T	T	T	T	T	T	T
Bachville	26 Vine Street(MOE Trailer)	17015	79	43.04	80.51	T	9	T	30	T	85	T	T	T
Tiverton	Bruce GS Weather Station	18017	79	44.18	80.35	T	10	T	T	T	T	T	T	T
Jarvis	Hydro Met Tower (2 Km Ne Jarvis)	22883	84	42.54	80.05	T	10	T	T	T	T	T	T	T
Long Point	Provincial Park	22901	79	42.35	80.23	T	T	T	T	T	T	T	T	T
Nanticoke	Rainbow Road(Near Stelco Gate)	22907	89	42.48	80.04	T	10	T	T	T	T	T	T	T
Cambridge	Clyde Road	26066	91	43.38	80.29	T	10	T	30	T	37	T	T	T
Allanburg	Transforer Station Highway 58	27011	81	43.04	79.11	T	10	T	T	T	91	T	T	T
Flemington	Koolby Hwy 5	29117	96	43.11	79.11	T	10	T	T	T	T	T	T	T
Hamilton	N Brampton/Woodward Hillard St.	29026	75	43.15	79.46	T	10	T	30	T	91	T	T	T
Toronto	Island Airport-Environment Canada Site	31025	75	43.38	79.21	T	10	T	T	T	T	T	T	T
Toronto	Bruce Pt. 5.1 Larchmont Avenue	31048	75	43.39	79.25	T	10	T	T	T	T	T	T	T
Scarborough	Pembroke Junction Trunkage	31120	82	43.40	79.27	T	18	T	T	T	T	T	T	T
Eglinton	Lawrence/Kennedy Ave.	31009	75	43.45	79.16	T	12	T	T	T	T	T	T	T
Dundas	Evans/Amold Avenue	33013	75	43.31	79.31	T	10	T	30	T	91	T	T	T
Burlington	IHWY 2/ North Shore Blvd	44008	79	43.19	79.48	T	10	T	T	T	76	T	T	T
Oakville	Brenton Road/Vulcan Crescent	44010	80	43.24	79.44	T	10	T	T	T	T	T	T	T
Stoney Creek	Highway 47 East Of Highway 48	44002	82	43.58	79.16	T	10	T	T	T	T	T	T	T
Cornwall	861 West Second Street	56065	76	45.01	74.44	T	10	T	T	T	T	T	T	T
Dyden	35 Van Horne Avenue	61027	84	40.47	92.50	T	18	T	T	T	T	T	T	T
Cornwall	Memorial Park	56051	85	45.01	74.44	T	10	T	T	T	T	T	T	T
Fort Frances	Eight Street/Cornwall Avenue	62047	90	48.21	93.35	T	10	T	T	T	T	T	T	T
Marathon	Peter Street	63043	91	48.43	86.22	T	8	T	T	T	T	T	T	T
Red Rock	Recreation Centre, Thompson Rd	63084	81	48.57	88.15	T	15	T	T	T	T	T	T	T
Terence Bay	St. Martin School, Selkirk St.	63090	82	48.47	87.05	T	12	T	T	T	T	T	T	T
Thunder Bay	MTO 61.5 James Street South	631200	90	48.22	89.17	T	10	T	T	T	T	T	T	T
Sault Ste Marie	Wm. Merrifield School	71068	87	46.12	84.21	T	10	T	T	T	T	T	T	T
Heart	MNR, 613 Front St.	72113	95	49.41	83.39	T	16	T	T	T	T	T	T	T
North Bay	OPP Station	75010	87	46.19	79.27	T	10	T	T	T	T	T	T	T
Sudbury	Hammer	77013	82	46.39	80.51	T	10	T	T	T	T	T	T	T
Sudbury	CKNC-TV, 699 Food Road	77025	73	46.30	81.00	T	10	T	T	T	115	T	T	T

LEGEND:

WS1 - WIND SPEED AND DIRECTION BELOW 23 M  
 WS2 - WIND SPEED AND DIRECTION 23 M TO 76 M  
 WS3 - WIND SPEED AND DIRECTION ABOVE 76 M

HT1 - SENSOR HEIGHT (METERS) LEVEL 1  
 HT2 - SENSOR HEIGHT (METERS) LEVEL 2  
 HT3 - SENSOR HEIGHT (METERS) LEVEL 3

TEM - AMBIENT TEMPERATURE  
 DT1 - TEMPERATURE DIFFERENCE LEVEL 2 MINUS 1  
 DT2 - TEMPERATURE DIFFERENCE LEVEL 3 MINUS 1

**TABLE 5 Sulphur Dioxide (SO<sub>2</sub>) Statistics (1996)**  
**Unit: parts per billion (ppb)**

Stn	City	Location	Valid hrs	P E R C E N T I L E S				Mean	Maximum	1h	24h	# of times above Criteria
				10%	30%	50%	70%					
12007	Windsor	Wright/Water St.	7747	0	3	6	10	19	40	8.4	95	41.3
12008	Windsor	467 University Ave. W	8659	2	6	9	11	18	40	9.8	92	29.2
12016	Windsor	College/South St.	8470	1	4	7	11	19	40	9.1	101	31.5
14916	Courtright	Hwy40 (Opp/Lambton Cs)	7879	0	1	3	5	14	67	6.2	187	41.3
14064	Samia	Centennial Pk./Front St/Cn Tracks	8659	0	1	2	4	17	100	7.4	197	83.7
15025	London	900 Highbury Ave.E	8635	0	1	2	3	6	14	2.7	40	11.8
18007	Tiverton	Concession Rd 2 Lot A	7650	0	0	1	2	5	15	1.9	60	11.9
22071	Simcoe	Experimental Farm	7149	0	1	1	3	7	19	2.8	63	16.1
22086	Nanticoke	Cheapside Rd/Km 5 Of Hwy 3)	8343	0	1	2	3	10	27	3.7	216	21.4
22094	Townline	Townline/Rd/Con 13	6024	0	1	1	2	6	18	2.3	53	15.1
22901	Long Point	Provincial Park	7185	0	1	1	3	8	20	3.0	68	16.8
22907	Nanticoke	Rainham Rd (Near Steele Gate)	8487	0	1	3	5	13	34	5.0	82	21.3
26060	Kitchener	West Ave/E/Homewood Park/Duke	8192	0	1	2	4	8	19	3.3	68	22.0
26069	Elmira	Argyle Crescent	8805	0	1	1	3	9	35	INS	115	24.0
27067	S.Cathartes	Hwy 405/Stanley Ave.	8482	1	3	5	7	14	28	6.4	59	23.5
27072	Niagara Falls	Vickers Rd/E. 18Th St	5736	0	2	4	6	12	27	INS	58	24.0
29000	Hamilton	Elgin/Kelly Barton/Ventworth	8729	1	2	4	7	17	40	6.6	82	28.8
29025	Hamilton	467 Beach Blvd	8402	1	3	5	10	26	62	10.1	200	43.6
29102	Hamilton	Nash/Kently Dr.	5385	0	1	2	4	10	28	INS	52	27.3
29114	Hamilton	Vickers Rd/E. 18Th St	8481	0	1	3	6	14	35	5.7	71	30.3
29118	Hamilton	Main StSW Hwy 403	8743	0	2	3	6	11	25	5.1	65	24.5
31303	Toronto	Queen/University/Osgoode	8887	1	3	4	6	10	23	5.4	54	26.2
33003	Scarborough	Lawrence/Kenedy	8330	2	4	5	6	10	21	5.7	55	27.1
34020	North York	Hendon Ave.E/Yonge/Finch	8374	1	2	4	5	9	22	4.6	49	24.5
35003	Etobicoke	Elmcress Rd (Centennial Pk.)	8602	0	1	2	4	9	24	3.9	131	23.4
35033	Etobicoke	Evans/Arnold Ave.	8486	0	3	4	6	10	23	5.2	60	27.0
36030	York	Clearview Hgs/Kecle St	8481	1	3	4	6	10	26	5.3	111	37.5
44008	Burlington	Hwy 2/North Shore Blvd E	8349	1	2	3	5	9	21	4.3	47	19.3
44015	Oakville	Bronie Rd/Walton Cres	8396	1	3	4	6	10	24	5.1	52	22.9
45025	Oshawa	Ps. Risson Rd/Olive Ave.	8659	1	3	4	6	10	23	5.0	79	24.4
46117	Mississauga	Meadow Park,Apple Lane Club	8664	0	1	2	3	7	20	3.2	52	20.7
48002	Stouffville	Hwy 47/E of Hwy 48	8329	1	1	2	3	6	15	3.1	53	18.6
49010	Dorset	Hwy 117/Paint Lake Rd.	8541	0	0	1	3	9	1.0	46	10.8	0
51001	Ottawa	Med Gds., Rideau/Wurtenburg St.	8295	1	4	5	6	8	14	4.8	48	16.4
56051	Cornwall	Memorial Pk., Bedford/Third Sts.	8708	1	2	3	4	12	38	5.2	152	24.0

**TABLE 5 Sulphur Dioxide (SO<sub>2</sub>) Statistics (1996)**  
**Unit: parts per billion (ppb)**

Stn	City	Location	Valid hrs	P E R C E N T I L E S				Maximum	# of times above Criteria
				10%	30%	50%	70%		
63200	Thunder Bay	615 James St. S.	8754	0	0	0	1	4	0.3
71068	Sault Ste. Marie	Wm. Merrifield School	8726	0	0	1	2	26	34
71077	Wawa	Hwy 17 West (Koa Campground)	7935	0	0	0	1	4	20.8
77012	Sudbury	Shead	8159	0	0	1	1	26	121
77013	Sudbury	Hanner	8748	0	0	1	2	5	2.2
77016	Sudbury	Water Tank, Ash St.	8738	0	1	1	4	96	10
77028	Coniston	Government Rd./Edward St.	8707	0	0	1	1	37	3.7
77065	Carson	Falconbridge Rd.	8689	0	0	1	2	11	459
77075	New Sudbury	Kennedy St.	8743	0	1	2	3	1122	66.0
77096	Sudbury	Long Lake Rd. (Villa Loyola)	8730	0	1	2	3	10	363
77201	Sudbury	Mikkola (J. Hamilton School)	8715	0	0	1	2	5	75.4
77203	Sudbury	Science North	8689	0	1	2	3	49	3.0
77206	Rayside	St Laurent/Regional Rd.	8696	0	0	1	1	103	29.3
77218	Copper Cliff	Lot 2-Plan M-1025	8710	0	0	1	1	15	3.0
77225	Sudbury	1412 Stephen St.	8740	0	0	1	2	8	582
77228	Sudbury	Dozzi Park	8752	0	0	0	1	8	77.9
								480	17
								48.5	1
								9	0
								0	0

**TABLE 6 Suspended Particles (SP) Statistics (1996) as measured by COH  
Unit: COHS/1000 FT**

Stn	City	Location	Valid hrs	P E R C E N T I L E S						Mean	Maximum	# of times above Criteria	
				10%	30%	50%	70%	90%	99%				
12008	Windsor	467 University Av W	8762	0.1	0.1	0.2	0.3	0.6	1.0	0.26	3.0	0.33	0
12016	Windsor	College/South St	8515	0.1	0.2	0.2	0.3	0.6	1.2	0.29	2.2	0.33	0
14064	Sarnia	Centennial Pk, Front St/Cn Tracks	8721	0.0	0.1	0.1	0.2	0.3	0.7	0.17	2.2	0.31	0
15025	London	910 Highway Ave E.	8667	0.0	0.1	0.2	0.3	0.4	0.8	0.21	1.7	0.72	0
22907	Nanticoke	Rainham Rd (Near Stelco Gaic)	8425	0.0	0.1	0.2	0.2	0.4	0.8	0.20	3.2	0.67	0
26060	Kitchener	West Ave/Homewood	8686	0.1	0.1	0.2	0.3	0.4	0.9	0.22	1.7	0.82	0
26069	Elginfa	Elmira	8258	0.0	0.1	0.1	0.2	0.3	0.6	0.18	1.4	0.51	0
27067	St Catharines	Argyle Cres (Pump Sta)	7964	0.1	0.1	0.2	0.3	0.5	0.9	0.24	3.3	0.82	0
27072	Niagara Falls	Stanley Ave/Hwy 420	5714	0.1	0.1	0.2	0.3	0.5	0.8	0.18	1.7	0.72	0
28000	Hamilton	Elgin/FKelly St	8686	0.1	0.2	0.3	0.5	1.0	1.8	0.43	3.3	1.45	16
29025	Hamilton	Barton/Wentworth	8358	0.1	0.3	0.4	0.6	1.0	2.0	0.51	4.0	1.51	26
29102	Hamilton	467 Beach Blvd	8232	0.1	0.2	0.4	0.6	0.9	1.8	0.44	4.8	1.34	8
29105	Hamilton	Nash Rd/Kentley Dr	4975	0.2	0.3	0.4	0.5	0.7	1.4	0.18	2.8	1.10	2
29114	Hamilton	Vickers Rd/East 18Th St	8570	0.1	0.1	0.2	0.3	0.6	1.3	0.26	2.2	1.35	2
29118	Hamilton	Main St/W Hwy 403	8760	0.0	0.1	0.2	0.4	0.8	1.4	0.33	2.5	1.40	4
29531	Hamilton	JJ Case	8090	0.1	0.2	0.3	0.6	1.1	2.4	0.49	4.6	1.97	21
31303	Toronto	Toronto (Osgoode)	8468	0.1	0.2	0.4	0.5	0.9	1.5	0.44	3.2	1.24	4
33003	Scarborough	Lawrence/Kennedy	8567	0.1	0.1	0.2	0.3	0.6	1.2	0.28	2.3	0.90	0
34000	North York	Hendon Ave (Yonge/Finch)	8619	0.1	0.2	0.3	0.4	0.8	1.6	0.37	3.0	1.26	5
35003	Etobicoke	Elmcrest Rd/Centennial Pk	8640	0.1	0.1	0.2	0.3	0.6	1.4	0.29	3.6	1.50	2
35033	Etobicoke	Evans/Arnold Av	8609	0.1	0.2	0.3	0.5	0.8	1.6	0.39	2.7	1.33	5
36030	York	Clearview Ht GS/Keele St	8366	0.1	0.2	0.2	0.4	0.7	1.6	0.34	3.2	1.23	4
44008	Burlington	Hwy 2/North Shore Blvd E	8719	0.1	0.2	0.2	0.4	0.7	1.4	0.33	2.8	1.10	4
44015	Oakville	Bronie Rd/Woburn Cres	8544	0.1	0.1	0.2	0.3	0.5	1.1	0.26	2.4	0.82	0
45025	Oshawa	PaRison Rd/Olive Av	8167	0.0	0.1	0.2	0.3	0.5	1.1	0.26	1.9	0.89	0
46010	Mississauga	Queensway/W/Lintonario St	8134	0.1	0.1	0.2	0.3	0.6	1.4	0.31	3.0	1.21	2
51001	Ottawa	Med Gde, Rideau/Waterloo St	8342	0.0	0.1	0.1	0.2	0.4	0.8	0.18	2.4	0.73	0
52020	Kingston	Churchill Pk, Napier St	8517	0.0	0.0	0.1	0.2	0.4	1.2	0.15	2.4	1.34	1
56051	Cornwall	PMHO/Merton Pk/Bedford/Third	8696	0.0	0.0	0.1	0.2	0.4	0.9	0.15	2.3	0.79	0
62030	Port Frances	Portage/Church St	8599	0.0	0.1	0.1	0.2	0.4	1.0	0.19	4.8	1.29	1
63200	Thunder Bay	MTC 615 James St S	8598	0.0	0.1	0.1	0.2	0.4	1.1	0.19	2.8	0.99	0
71068	Sault Ste Marie	Wm Merrifield School	8462	0.0	0.1	0.2	0.3	0.6	1.3	0.25	3.8	0.95	0
73010	North Bay	OPP Stn	8343	0.0	0.1	0.1	0.2	0.3	0.8	0.14	1.5	0.36	0
77203	Sudbury	Science North	8635	0.0	0.1	0.1	0.2	0.3	0.9	0.15	2.1	0.91	0

**TABLE 7 Total Reduced Sulphur (TRS) Statistics (1996)**  
**Unit: parts per billion (ppb)**

Stn	City	Location	P E R C E N T I L E S						Exceedances of Pulp Mill Criterion			
			Valid hrs	10%	30%	50%	70%	90%	99%	Mean	1h	
12007	Windsor	Wright/Water St	7674	0	0	1	3	10	1.1	39	6.5	
12016	Windsor	College/South St	8355	0	0	0	1	2	9	0.8	35	8.4
14054	Sarnia	Centennial Pk./Front St/C'n Tracks	8670	0	0	0	0	1	2	0.3	12	7.7
18007	Tiverton	Concession Rd 2/Lot A	7988	0	0	0	0	1	1	0.3	4	1.4
22904	Nanticoke	Walpole St/Ps./Sandiskard	8375	0	0	0	0	1	1	0.4	9	3.4
22907	Nanticoke	Rainham Rd (Near Stelco Inc.)	8065	0	0	0	1	2	9	0.8	28	7.2
26069	Elmira	Park/A Duke	3730	0	0	0	0	1	5	INS	19	2.6
27077	Chippawa	Chippawa/Reilly	3460	0	0	0	1	2	3	INS	18	2.2
29000	Hamilton	Elgan/Kelly	8574	0	0	1	1	3	9	22	8.8	0
29025	Hamilton	Bartow/Wentworth	7556	0	1	2	3	5	12	2.3	80	12.3
29102	Hamilton	467 Beach Blvd	7727	0	0	0	1	3	10	1.1	67	6.3
29105	Hamilton	Nash/Kathy Dr.	4735	0	0	1	1	2	5	INS	14	5.1
29114	Hamilton	Vickers Rd/E. 18th St	8451	0	0	1	1	2	7	1.1	57	10.8
29118	Hamilton	Main St/W Hwy 403	8724	0	0	1	1	3	8	1.3	30	10.3
29531	Hamilton	Hillside St	8513	0	0	1	2	4	13	1.7	77	10.5
29547	Hamilton	Pier 25/Beach Steep	7274	0	1	1	2	5	14	2.0	48	9.9
44015	Onkville	Bronte Rd/Woburn Cres	8471	0	1	1	2	3	4	1.3	10	4.2
46117	Mississauga	Meadow Park, Apple Lane Club	8568	0	0	1	1	2	3	0.7	43	4.5
56051	Cornwall	Memorial Pk./Third Sts.	8722	0	0	1	1	3	8	1.2	72	7.9
56068	Cornwall	School St/435 Second St W	7697	0	1	2	3	7	27	3.0	90	29.6
61027	Dryden	35 Van Horne Ave.	8479	0	0	0	0	1	15	0.7	51	11.1
62030	Fort Frances	Portage/Church St.	8743	0	0	0	1	8	40	2.7	145	31.4
62032	Fort Frances	Cemetery/Colonization Rd W	8756	0	0	0	0	2	9	0.7	68	9.0
62045	Ind'l Falls	U.S. Customs Bldg.	8266	0	0	0	1	4	20	1.5	338	21.6
62047	Fort Frances	Eighth St/Cornwall Ave E.	8736	0	0	1	5	40	2.5	276	51.6	188
62051	Fort Frances	Laf Verendrye Hospital	4039	0	0	0	0	2	12	INS	165	5.9
63033	Murdston	Water Tower	8694	0	0	0	0	1	6	0.4	21	4.8
63046	Thunder Bay	Cin-Cue, Montreal St	8711	0	0	0	0	2	11	0.8	38	8.0
63084	Red Rock	Recreation Centre	8387	0	0	0	0	3	22	1.2	77	21.8
63090	Terrace Bay	St.Martin School	8724	0	0	0	0	3	22	1.3	98	13.1
63092	Terrace Bay	Terrace Height Dr	8751	0	0	0	0	4	43	2.2	159	35.1
63200	Thunder Bay	615 James St. S.	8759	0	0	0	0	0	2	0.1	17	4.5
71068	South Ste Marie	Wm. Mervin School	8720	0	0	0	1	1	5	0.5	32	4.3
77203	Sudbury	Science North	8473	0	0	0	0	1	1	0.3	2	1.9

**TABLE 8 Carbon Monoxide (CO) Statistics (1996)**  
**Unit: parts per million (ppm)**

Stn	City	Location	Valid hrs	P E R C E N T I L E S				Mean	Maximum			# of times above Criteria
				10%	30%	50%	70%	90%	99%	1h	8h	
12608	Windsor	467 University Av W	8736	0	1	1	1	2	0.8	7	3.3	0
14064	Sarnia	Centennial Pk, Front St/Cen Tracks	8562	0	0	0	1	1	0.2	5	1.9	0
15025	London	London - AQI	8688	0	0	0	0	1	0.0	4	1.9	0
26660	Kitchener	West Ave/Homewood	8482	0	0	0	1	1	0.4	5	3.3	0
27067	St Catharines	Argyle Creek (Pump Sta)	7409	0	0	0	1	2	0.3	8	2.6	0
29000	Hamilton	Elijah Kelly St	8391	0	1	1	2	3	1.0	23	10.5	0
29118	Hamilton	Main St/Wlwy 403	8513	0	0	1	1	3	0.8	11	3.9	0
31303	Toronto	Toronto (Osgoode)	8559	1	1	1	2	2	4	13	11	5.3
33603	Scarborough	Lawrence/Kennedy	8502	1	1	1	1	2	3	1.1	5	3.5
34020	North York	Hendon Ave (Yonge/Finch)	8568	0	1	1	1	2	0.9	4	3.0	0
35003	Eglinton	Elmcrest Rd/Centennial Pk	8574	0	0	1	1	1	0.7	8	2.9	0
35033	Eglinton	Evans/Arnold Av	8599	1	1	1	1	2	3	1.1	5	3.8
36030	York	Clayview Ht, SS/Keel St	8203	0	1	1	1	2	3	0.9	9	4.1
44008	Burlington	Hwy2/North Shore Blvd E	8618	0	0	0	1	1	0.5	4	2.8	0
44015	Oakville	Bronde Rd/Woburn Cres	8521	0	0	1	1	1	0.7	4	2.6	0
45025	Oshawa	Pa Riston Rd/Olive Av	8631	0	0	1	1	1	0.6	6	2.6	0
51001	Ottawa	Med Gds, Rideau/Wurtenburg St	8352	0	0	1	1	2	0.5	5	2.6	0
56051	Cornwall	PMJO Memorial Pk, Bedford/Third	8673	0	0	0	1	1	0.6	12	5.4	0
63200	Thunder Bay	MTC 615 James St S	86680	0	0	0	1	2	0.2	6	3.0	0
77203	Sudbury	Scienece North	8712	0	0	0	1	0	0.0	3	2.5	0

**TABLE 9 Nitrogen Dioxide (NO<sub>2</sub>) Statistics (1996)**  
**Unit: parts per billion (ppb)**

Station	City	Location	Valid hrs	P E R C E N T I L E S					Mean	1Hr	2-4H	1H	2H	# of times above Criteria
				10%	30%	50%	70%	90%						
12008	Windsor	467 University Av W	8722	12	19	24	30	41	58	25.5	72	49.1	0	0
14064	Sarnia	Centennial Pk, Front St/Cn Tracts	8677	5	9	14	20	31	50	16.4	70	45.2	0	0
15013	Parkhill	Puc Bldg	6623	4	6	9	12	19	32	10.0	98	32.2	0	0
15025	London	London - A/OI	8625	7	12	17	22	31	49	18.1	75	46.2	0	0
22086	Nanticoke	Cheapside Rd/3 Km S of Hwy 3)	7486	0	4	6	9	15	28	7.3	57	22.6	0	0
26060	Kitchener	West Ave/Homewood	8628	3	7	10	16	26	40	12.9	54	33.4	0	0
26069	Elmira	Elmira	3233	3	5	8	13	21	34	INS	45	27.3	0	0
27067	St Catharines	Argyle Cres (Pump Site)	7331	5	9	14	19	29	43	15.5	61	42.8	0	0
29000	Hamilton	Eign/Kelly St	8305	8	14	20	27	38	53	21.6	70	52.6	0	0
29102	Hamilton	467 Beach Blvd	7892	7	14	21	28	39	54	21.9	74	48.6	0	0
29114	Hamilton	Vickers Rd/East 18Th St	7500	6	9	14	20	33	54	17.1	72	49.1	0	0
29118	Hamilton	Main St/W/Hwy 403	8734	6	11	17	25	37	54	19.7	69	47.2	0	0
31303	Toronto	Toronto (Osgoode)	8722	19	27	32	39	51	70	33.9	108	63.5	0	0
33003	Scarborough	Lawrence/Kennedy	8588	9	15	21	28	40	57	22.9	38	56.4	0	0
34020	North York	Hendon Ave (Yonge/Finch)	8522	7	14	21	27	39	54	21.9	71	48.7	0	0
35003	Ehobioke	Ehobioke Rd (Centennial Pk)	8669	9	17	23	31	44	61	25.3	90	55.0	0	0
35033	Ehobioke	Evans/Arnold Av	8660	16	24	30	37	50	72	31.6	120	70.1	0	0
36030	York	Clearview Hill/GS/Keede St	6938	11	18	24	32	50	90	28.1	171	100.4	0	1
44008	Burlington	Hwy 2/North Shore Blvd E	8712	3	6	10	13	20	30	10.6	75	31.1	0	0
44015	Oakville	Bronte Rd/Woburn Ctes	8478	7	12	18	25	34	48	19.7	64	39.4	0	0
45025	Oshawa	Ps Ritson Rd/Olive Av	8639	6	11	17	25	36	54	19.3	79	47.7	0	0
48002	Stouffville	Hwy 47E/O/Hwy 48	7035	4	7	10	14	24	38	12.3	56	32.4	0	0
49010	Dorset	Hwy 117/Paint Lake Rd	8635	1	1	2	7	17	2.7	60	23.1	0	0	0
51001	Ottawa	McG Gds, Rideau/Wartenburg St	6474	3	7	11	17	27	41	13.4	63	31.6	0	0
56051	Cornwall	P/M10 Memorial Pk Bedford/Hill	8436	0	3	6	10	19	40	8.4	71	38.3	0	0
63200	Thunder Bay	MIC 615 James St S	8735	3	6	9	13	25	46	11.9	81	40.0	0	0
71068	Sault Ste Marie	Wm. Merrifield School	5964	2	5	10	17	31	50	13.7	99	39.2	0	0
77203	Sudbury	Science North	8638	2	4	6	9	17	36	8.0	53	31.0	0	0

**TABLE 10 Nitric Oxides (NO) Statistics (1996)**  
**Unit: parts per billion (ppb)**

Sin	City	Location	Valid hrs	P 10%	E 30%	R 50%	C 70%	N 90%	T 99%	I Mean	L 1h	S 24h	M Maximum
12008	Windsor	467 University Av W	8728	3	6	10	16	34	97	15.7	287	62.5	
14064	Sarnia	Centennial Pk, Front St/Cn Tracks	8675	0	1	3	5	16	60	6.6	165	64.0	
15013	Parkhill	Pine Blide	6623	0	1	1	2	4	17	2.2	130	26.2	
15025	London	London - AQL	8636	1	3	6	9	22	79	9.9	241	72.5	
22086	Nanaimo	Cheapside Rd/3 Km S Of Hwy 3	7456	0	1	1	2	4	17	2.0	102	18.8	
26060	Kitchener	West Ave/Elmwood	8641	1	2	3	6	14	78	7.4	267	88.0	
26069	Elmira	Elmira	3233	1	1	2	3	7	25	3.2	117	24.1	
27067	St.Catharines	Argyle Cres (Pump Sm)	7351	1	5	7	10	26	114	12.7	308	108.0	
29000	Hamilton	Elgin/Kelly Blvd	8337	1	4	7	13	37	140	15.4	377	130.8	
29102	Hamilton	467 Beach Blvd	8124	0	3	12	26	51	145	21.5	337	109.0	
29114	Hamilton	Vickers Rd/East 18Th St	7548	0	2	3	6	21	74	8.1	150	62.9	
29118	Hamilton	Main St/W/Hwy 403	8726	1	3	8	19	70	229	25.1	490	178.7	
31303	Toronto	Toronto (Osgoode)	8723	8	19	31	49	90	179	41.9	411	172.7	
33003	Scarborough	Lawrence/Kennedy	8591	1	5	12	24	56	166	23.2	471	142.5	
34020	North York	Hinden Ave (Yonge/Finch)	8672	1	3	7	16	45	133	17.4	347	110.8	
35003	Etobicoke	Elmcrest Rd (Centennial Pk)	8667	1	3	8	17	57	211	22.0	374	147.1	
35033	Etobicoke	Evans/Arnold Av	8660	5	12	22	39	92	258	39.4	558	214.0	
36030	York	Clearview Ht. GS/Keete St	8383	4	7	11	20	68	226	27.1	539	160.8	
44008	Burlington	Hwy 2/North Shore Blvd E	8704	1	2	4	9	29	115	11.7	432	94.0	
44015	Oakville	Bronte Rd/Woburn Cres	8477	2	5	7	12	37	129	15.6	339	81.6	
45025	Oshawa	Ps Rison Rd/Olive Av	8664	2	4	8	14	35	114	15.2	317	79.3	
48002	Stouffville	Hwy 47/E Of Hwy 48	6989	1	4	9	17	29	49	12.4	195	36.7	
49010	Dorset	Hwy 117/Pain Lake Rd	8635	1	1	2	2	2	5	1.7	22	4.2	
51001	Ottawa	Mcd Gds, Rideau/Wentenburg St	6509	1	3	5	7	17	70	8.2	176	54.7	
56051	Cornwall	PM10 Memorial Pk Bedford/Third	8565	2	3	4	7	13	71	7.9	427	68.2	
63200	Thunder Bay	MTC 615 James St S	8736	1	2	3	7	19	89	8.7	354	76.9	
71068	Sault Ste Marie	Wm. Mertifield School	5964	0	1	2	5	19	109	8.3	356	75.1	
77203	Sudbury	Science North	8636	1	2	3	4	10	63	5.7	204	75.4	

**TABLE 11 Nitrogen Oxides (NOx) Statistics (1996)**  
**Unit: parts per billion (ppb)**

Site	City	Location	Valid hrs	P E R C E N T I L E S						Mean	24h Maximum
				10%	30%	50%	70%	90%	99%		
12008	Windsor	4667 University Av W	8720	16	24	32	44	69	140	39.1	342
		Centennial Pk, Front St/Cn Tracks	8675	7	11	18	27	47	100	23.5	220
14004	Sarnia	Inc Bldg	6365	4	6	9	12	20	41	11.0	190
15013	Falkland	London - AOI	8637	11	17	22	30	49	115	27.9	279
15025	London	Cheapside Rd/3 Km S Of Hwy 3)	7487	1	5	8	11	19	40	9.5	186
22086	Nanticoke	West Ave/Honeywood	8638	6	9	14	21	40	110	20.4	291
26060	Kitchener	Elmira	3236	6	9	12	18	30	54	INS	156
26069	Elmira	Argyle Cres (Bump Stn)	7253	10	14	20	29	53	147	28.5	348
27067	St Catharines	Elgin/Kelly St	8188	11	19	28	40	72	185	37.2	427
29000	Hamilton	467 Beach Blvd	8106	6	16	34	54	84	181	41.7	368
29102	Hamilton	Vickers Rd/Fast 18Th St	7461	7	12	18	27	54	120	25.5	250
29114	Hamilton	Main St/W(Hwy 403	8363	9	16	26	45	101	243	44.0	460
29118	Hamilton	Toronto (Osgoode)	8723	30	49	66	88	133	239	76.0	496
31303	Toronto	Lawrence/Kennedy	8591	10	21	34	51	92	212	45.4	550
33003	Scarborough	Hinden Ave (Yonge/Finch)	8615	9	18	29	45	80	171	38.9	394
34020	North York	Ethelvick Rd (Centennial Pk)	8609	11	21	32	49	98	258	47.2	444
35003	Ethobrooke	Evans/Arnold Av	8660	23	37	52	75	135	316	69.9	628
36030	York	Clearview Ht/GSK/cels St	6938	17	26	38	57	110	261	54.5	627
44008	Burlington	(Hwy 2/North Shore Blvd E	8702	4	9	15	24	47	137	22.5	508
44015	Oakville	Bronie Rd/Wohum Cres	8477	9	16	24	35	69	165	33.2	392
45025	Oshawa	Pt Rd/Olive Av	8625	8	16	26	39	70	157	34.5	381
48002	Stouffville	Hwy 47/E Of Hwy 48	6989	8	14	21	29	43	79	24.0	221
49010	Dorset	Hwy 11/Paul Lake Rd	8635	2	2	3	4	8	21	4.2	62
51001	Ottawa	Med Cds, Rideau/Wortenburg St	6525	8	13	18	25	44	106	23.1	228
56051	Cornwall	PM10 Memorial Pk/Bedford/Hind	8555	4	8	12	17	32	104	17.0	454
63200	Thunder Bay	MIC 615 James St S	8739	5	8	13	20	44	133	20.8	433
71068	Sault Ste Marie	Win Merrifield School	5940	2	6	12	23	48	153	21.9	456
77203	Sudbury	Science North	8641	4	6	9	14	26	91	14.0	241
											105.4

**TABLE 12 Ozone ( $O_3$ ) Statistics (1996)**  
**Unit: parts per billion (ppb)**

Stn City	Location	Valid hrs	P E R C E N T I L E S			Aribit. Mean	Maximum	# of times above Criterion
			10%	30%	50%			
12008 Windsor	467 University Ave. W	8722	2	8	17	26	44	76
12016 Windsor	College/South St.	8649	1	7	16	27	47	84
13021 Merlin	MOE Water Pump Stn, Middle Rd	8725	8	18	26	35	51	85
14064 Sarnia	Centennial Pk./Front SU/Cn Tracks	8562	5	15	23	33	46	75
14118 Malden/Tunmin	Concession Rd 26	8683	6	15	22	30	41	69
15009 Longwoods	Conservation Authority	8488	5	16	25	34	47	75
15013 Parkhill	Pic Building	7532	8	18	26	33	47	78
15020 Grand Bend	Point Blake (Conservation Area)	8747	11	23	32	39	50	82
15025 London	900 Highway Ave. E	8541	4	12	20	28	46	79
18007 Tiverton	Concession Rd 2 Lot A	8741	14	25	32	38	48	78
22071 Sarnia	Experimental Farm	7879	9	19	28	37	54	81
22901 Long Point	Provincial Park	7471	13	23	32	40	57	87
24660 Kitchener	West Ave./Homewood	8480	3	14	23	32	45	70
27067 St Catharines	Argyle Crescent	8519	0	10	18	27	42	69
27072 Niagara Falls	Hwy 405/Stanley Ave.	5418	9	20	29	36	50	72
28028 Guelph	Exhibition St/Clark St	6337	4	18	26	33	46	68
29000 Hamilton	Elgin/Kelly	8764	1	6	15	23	38	63
29105 Hamilton	Nash/Kently Dr.	5701	2	13	21	28	40	66
29114 Hamilton	Vickers Rd/E. 18th St	8728	1	10	18	28	43	72
(29118) Hamilton	Main Stw Hwy 403	8560	1	5	15	24	38	64
31303 Toronto	Queen/University/Osgoode	8624	1	4	9	16	27	45
33003 Scarborough	Lawrence/Kennedy	8373	2	8	16	25	40	69
34020 North York	Hendon Ave.E./Yonge/Linch	8628	0	5	14	23	35	59
35003 Etobicoke	Elmcrest Rd (Centennial Pk.)	8549	0	5	14	24	38	59
35033 Etobicoke	Evans/Arnold Ave.	8114	2	6	13	22	38	67
36030 York	Clearview Hlgs/Kecle St	8390	2	6	15	26	41	72
44008 Burlington	Hwy 2/North Shore Blvd E.	8680	3	10	20	30	46	74
44015 Oakville	Bonne Rd/Woburn Cres	8522	1	8	18	29	45	72
45025 Ottawa	Pg. Ritson Rd/Dive Ave.	8585	5	13	21	29	40	61
46110 Mississauga	Queensway W/Huronatio St	8164	2	8	17	26	40	68
47037 Etobicoke	Sideroad 10/Con 8	6513	15	25	33	39	50	74

**TABLE 12 Ozone ( $O_3$ ) Statistics (1996)**  
**Unit: parts per billion (ppb)**

Stn	City	Location	Valid hrs	P E R C E N T I L E S			Arith.	Maximum	# of times above Criterion				
				10%	30%	50%							
48002	Steubenville	Hwy 47/E of Hwy 48	8409	8	18	25	32	46	71	26.4	100	69	40
49010	Dorset	Hwy 117/Paint Lake Rd.	8625	11	21	28	35	45	63	28.6	89	65	14
51001	Ottawa	Med Gds, Rideau/Wurtenburg St.	7862	2	9	18	26	37	55	18.9	83	53	3
52020	Kingston	Napier St	8621	1	10	20	28	40	66	20.9	83	62	8
56051	Cornwall	Memorial Pk./Bedford/Third Sts.	8337	3	13	20	27	40	60	21.9	86	57	3
59006	Peterborough	City Hall, 500 George St.	8739	7	18	25	33	44	67	26.0	90	64	18
62030	Port Frances	Portage/Church St.	7956	13	22	28	34	42	56	27.8	111	57	3
63120	Cloud River	Cloud River	4004	16	27	33	37	44	56	INS	72	53	0
63200	Thunder Bay	615 James St. S.	8763	3	14	22	28	36	47	21.0	64	44	0
71068	Sault Ste Marie	Wm. Merrifield School	8708	5	14	22	30	41	56	22.8	94	64	14
75010	North Bay	OPP Station	8368	7	18	26	32	42	62	25.4	99	68	19
77203	Sudbury	Science North	8603	12	21	27	34	45	62	28.1	90	66	6

**Table 13 Summary Statistics for Real-time PM<sub>10</sub>/PM<sub>2.5</sub> for 1996**

**Inhalable Particles PM<sub>10</sub> (TEOM)**  
Unit= Micrograms/m<sup>3</sup>

Station Number	City	Location	Valid Hrs	PERCENTILES					Arith Mean	Maximum 1 h	# of Times Above 24-Hour Criterion
				10	30	50	70	90			
12016	Windsor	College/South St	8429	10.0	16.0	21.0	28.0	47.0	87.7	25.60	349
15025	London	900 Highway Ave E	8633	6.0	11.0	16.0	22.0	36.0	70.0	19.44	192
29000	Hamilton	Elgin/Kelty St	8507	8.0	14.0	20.0	30.0	55.0	112.0	27.12	213
52020	Kingston	Churchill Pk., Napier St	8489	3.0	7.0	12.0	18.0	34.0	62.0	15.84	292
71068	Sault Ste Marie	Wm. Merrifield School	6444	4.0	7.0	12.0	19.0	36.0	90.0	17.11	306
										86.38	3

Data from 6 urban monitoring locations  
PM<sub>10</sub> 24-Hour Interim AAQC is 50ug/m<sup>3</sup>

**Respirable Particles PM<sub>2.5</sub> (TEOM)**  
Unit = Micrograms/m<sup>3</sup>

Station Number	City	Location	Valid Hrs	PERCENTILES					Arith Mean	Maximum 1 h	24 h
				10	30	50	70	90			
35033	Ft. Erie/Ck South	Evans/Arnold Ave	8631	6.0	9.0	11.0	16.0	25.0	52.0	13.93	135

TABLE 14 Total Suspended Particle (TSP) Statistics (1996)

Unit= micrograms/cubic metre

TSP - 24h AAQC is 120 micrograms/m<sup>3</sup>TSP - Annual AAQC is 60 micrograms/m<sup>3</sup>

Stn	City	Location	Number of Samples	P E R C E N T I L E S						Arith Mean	Geom Mean	# of Times Above Criteria	
				10%	30%	50%	70%	90%	99%				
11001	St. Marys	309 Thomas St	45	27.6	36.0	47.0	61.8	87.6	141.8	151.0	54.0	46.9	3 0
12006	Ica Salle	Beach Lane/Hwy 18	48	30.0	39.1	48.5	56.0	94.8	99.0	49.6	46.9	0	0
12007	Windsor	Wright/Water St	42	42.0	48.3	57.0	66.5	82.5	95.2	96.0	59.0	56.7	0
12008	Windsor	467 University Av W	49	42.8	51.4	58.0	66.6	84.4	100.0	100.0	60.2	57.9	0 1
12009	Little River	9725 Riverside Dr E	48	28.4	38.0	43.5	51.9	66.0	82.1	84.0	45.7	43.4	0 0
12011	Windsor	Drouillard Rd/Richmond St	49	43.2	53.4	58.0	69.2	86.4	118.4	129.0	63.2	60.5	1 1
12013	Windsor	Filtrat Pit/3665 Wyandotte St E	52	41.1	54.3	66.0	79.0	111.7	163.5	167.0	71.3	65.5	4 1
12015	Windsor	Sewage Stn Hwy 18/Prospect	52	56.1	66.3	81.5	96.0	123.0	175.4	179.0	86.5	81.1	7 1
12016	Windsor	College/South St	46	41.0	47.5	60.0	69.5	84.5	128.1	129.0	61.7	58.5	2 1
12036	Windsor	1802 George Av	41	33.0	47.0	57.0	67.0	82.0	122.6	125.0	INS	INS	1 1
12037	Windsor	3925 California St	51	35.0	42.0	49.0	56.0	71.0	92.0	94.0	51.2	48.8	0 0
12038	Windsor	2885 Howard Av	49	49.0	74.8	89.0	97.6	123.0	183.0	206.0	87.3	79.9	7 1
12053	Atherstburg	415 Front St	47	26.2	35.8	45.0	54.4	62.2	78.2	81.0	44.9	42.3	0 0
12055	Atherstburg	Duff St (E. End)	46	29.5	39.5	45.5	58.5	79.0	125.1	130.0	52.2	48.0	1 0
12058	Windsor	Columbus Centre	49	30.0	41.4	55.0	65.8	79.4	104.1	106.0	55.5	51.9	0 0
12060	Windsor	2335 Dougall Ave	47	37.2	48.8	52.0	61.4	73.6	102.7	111.0	55.6	53.2	0 0
12061	Windsor	1531 Crawford Street	53	45.0	55.6	64.0	77.6	118.6	132.4	135.0	71.1	66.1	3 1
14001	Samia	General Hospital, 220 Milton St	55	23.6	34.4	41.0	52.8	61.6	78.0	92.0	43.2	40.4	0 0
14016	Corunna	Hwy 40 (OPP Lambton GS)	54	20.9	27.9	33.0	45.0	53.0	72.6	80.0	36.4	33.6	0 0
14030	Corunna	RRI (W of House)	56	20.0	26.0	33.0	39.0	49.5	60.8	63.0	33.9	31.7	0 0
14059	Corunna	St Clair Blvd/Hwy 40	52	17.1	28.0	38.0	47.7	57.9	87.9	93.0	39.2	34.7	0 0
14064	Samia	Centennial Pk, Front St/Cn Tracks	49	33.6	40.4	48.0	56.8	67.4	90.9	101.0	49.1	46.7	0 0
14151	Samia	David/Front St	54	27.3	33.9	41.5	60.0	77.9	117.6	125.0	49.8	44.6	1 0
15008	St. Thomas	Edgeware Rd (NNW Varta Plt)	50	19.8	27.0	35.0	43.3	60.3	78.6	82.0	37.7	34.4	0 0
15009	Longwoods	Longwoods Conservation	50	13.0	19.7	29.5	35.0	45.0	60.6	65.0	28.9	26.1	0 0
15025	London	900 Highbury Ave	49	17.8	27.4	37.0	47.0	63.0	81.7	87.0	39.0	35.0	0 0
17014	Bethville	Cyanamide Rd (Jordan Prop)	53	27.4	34.6	42.0	54.8	78.6	106.6	117.0	48.2	43.7	0 0
17015	Bethville	26 Vine St (M01) Trailer	53	20.4	34.0	43.0	53.4	70.0	81.4	85.0	44.4	40.5	0 0
17020	Ingersoll	Hwy 2 Rr 2 (J Spratt Prop)	50	35.0	50.0	57.5	72.9	101.2	277.2	309.0	71.4	62.1	3 1
17021	Linbro	Oxford Crk Rd 6 (Ilescon Farm)	54	29.5	43.9	54.5	69.0	84.4	136.5	155.0	58.0	50.5	1 0

TABLE 14 Total Suspended Particle (TSP) Statistics (1996)

Unit= micrograms/cubic metre

TSP - 24h AAQC is 120 micrograms/m<sup>3</sup>TSP - Annual AAQC is 60 micrograms/m<sup>3</sup>

Stn	City	Location	Number of Samples	P E R C E N T I L E S						Arith Mean	Geom Mean	# of Times Above Criteria	
				10%	30%	50%	70%	90%	99%				
22904	Nanticoke	Walpole St./PS Sandusk Rd	55	22.0	29.0	34.0	38.0	51.2	73.6	86.0	35.3	33.3	0
22907	Nanticoke	Rainham Rd (Near Stelco Gaate)	57	32.0	39.8	49.0	62.4	79.2	106.2	118.0	53.1	49.7	0
22964	Nanticoke	N/2 Km Nauticoke GS	52	18.0	25.6	34.0	42.7	49.8	85.3	95.0	35.4	31.9	0
26044	Kitchener	134 Lancaster St	31	19.0	27.0	34.0	46.0	54.0	78.4	88.0	INS	0	INS
26046	Kitchener	718 Guelph St	28	17.0	22.1	24.5	30.0	45.6	47.7	48.0	INS	0	INS
27008	St Catharines	71 King St	14	45.0	47.8	56.0	64.0	70.0	80.4	82.0	INS	0	INS
27045	Welland	337 Alberta/Devon St	49	30.8	38.4	45.0	55.0	67.0	90.5	91.0	47.6	45.0	0
27047	Port Colborne	Davis/Frazer	12	31.0	52.9	58.5	69.4	71.8	80.0	81.0	INS	0	INS
27052	Thorold	185 Queen St S	40	41.9	62.4	77.5	96.6	145.5	203.5	230.0	INS	7	INS
27055	Niagara Falls	Sip Grounds, Stanley Ave	37	45.2	60.4	77.0	97.2	115.4	152.1	164.0	INS	2	INS
27072	Niagara Falls	Stanley Ave/Hwy 420	24	40.6	44.8	51.5	67.0	68.0	85.4	90.0	INS	0	INS
29000	Hamilton	Higin/Kelly St	52	32.2	42.3	60.5	76.1	118.9	169.1	170.0	69.3	60.9	5
29009	Hamilton	Kenilworth	43	36.8	54.6	66.0	80.4	113.6	144.8	157.0	72.3	65.8	4
29011	Hamilton	Burlington/Ledcs	48	48.8	61.1	79.0	126.7	166.8	199.5	208.0	94.1	83.5	15
29012	Hamilton	Burlington/Wellington	38	39.0	56.3	67.5	89.2	110.6	156.8	159.0	INS	3	INS
29017	Hamilton	Chatham/Frid	12	29.6	52.2	66.5	70.1	136.9	143.9	144.0	INS	2	INS
29025	Hamilton	Barton/Wentworth	53	42.2	52.8	68.0	90.4	131.8	177.5	178.0	79.6	71.5	8
29098	Hamilton	Bay/Main St	17	32.6	39.0	52.1	75.0	126.6	134.9	136.0	INS	3	INS
29102	Hamilton	467 Beach Blvd	52	34.1	51.3	67.5	85.7	113.2	141.8	152.0	71.3	64.8	3
29105	Hamilton	Nash Rd/Kentley Dr	17	37.8	42.2	54.0	66.4	91.4	104.6	107.0	INS	0	INS
29111	Greenville	Ofield Rd/Hwy 5	48	34.5	47.0	67.5	91.9	125.5	165.1	175.0	74.4	65.7	6
29113	Hamilton	Gerritude/Dewsw	52	49.0	59.3	85.0	136.1	185.9	310.9	341.0	107.0	91.1	17
29114	Hamilton	Vickers Rd/East 18th St	48	27.7	36.0	48.0	59.8	80.5	104.0	112.0	50.5	46.1	0
29118	Hamilton	Main St/W/Hwy 403	50	28.9	35.0	48.0	62.0	90.5	102.0	103.0	52.4	47.8	0
29119	Hamilton	Morley St/Parkdale Av	49	45.4	56.0	69.0	84.6	107.0	139.6	155.0	73.6	69.5	2
29122	Hamilton	Dundurn/York	43	25.2	35.2	43.0	51.6	72.8	90.4	95.0	45.4	41.8	0
29135	Hamilton	Albright Rd/Mt Albion Rd	16	30.5	33.0	49.5	58.0	73.5	83.4	85.0	INS	0	INS
29143	Hamilton	Keefer Court (MOE Air Shop)	39	39.8	59.0	66.0	74.6	99.2	118.3	121.0	INS	1	INS
31045	Toronto	Bruce Ps 51/Larchmount Av	162	26.1	38.3	48.0	62.0	85.8	125.7	150.0	53.6	48.2	3
31058	Toronto	Mosley/Leslie Sts	257	26.6	40.0	52.0	68.0	94.2	153.6	282.0	58.1	51.0	9
31065	Toronto	633 Eastern Av	257	27.6	40.0	51.0	64.2	94.4	187.0	246.0	57.3	50.5	8

TABLE 14 Total Suspended Particle (TSP) Statistics (1996)

Unit= micrograms/cubic metre

TSP - 24h AAQC is 120 micrograms/m<sup>3</sup>TSP - Annual AAQC is 60 micrograms/m<sup>3</sup>

Stn	City	Location	Number of Samples	P E R C E N T I L E S						Arith Mean	Geom Mean	# of Times Above Criteria	
				10%	30%	50%	70%	90%	99%				
31082	Toronto	Works Dept., 138 Hamilton Av	269	29.0	41.4	53.0	66.6	89.4	128.0	167.0	56.8	51.1	6
31303	Toronto	Toronto (Osgoode)	24	65.2	83.6	108.0	119.8	143.7	150.8	151.0	INS	7	1
46117	Mississauga	Meadow Pk. Apple Lane Club	52	24.0	30.0	37.5	51.4	75.5	88.9	92.0	42.6	38.6	0
62032	Port Frances	Cemetery, Colonization Rd W	46	10.5	15.5	19.5	27.5	37.0	55.7	62.0	23.0	20.4	0
62035	Port Frances	Legion Hldg 250 Church St	20	12.5	23.4	38.5	60.3	87.1	110.0	113.0	INS	0	1
63046	Thunder Bay	Can-Car Montreal St	54	14.0	23.9	34.5	48.1	77.7	124.8	138.0	41.7	34.1	1
63121	Thunder Bay	Lucasce Drive	54	10.6	19.0	23.0	30.2	49.1	93.7	125.0	28.6	23.9	1
63200	Thunder Bay	MIC 615 James St S	22	16.0	28.8	41.0	48.0	94.0	129.4	138.0	INS	1	1
71042	Sault Ste Marie	Pumphouse, Bonney St	49	32.2	60.0	95.0	129.8	191.4	269.9	292.0	103.1	83.7	16
71049	Sault Ste Marie	Land Office, Queen St	25	25.8	36.0	47.0	57.0	72.4	104.2	110.0	INS	0	1
71068	Sault Ste Marie	Wm Merrifield School	22	36.0	62.0	72.0	105.7	145.6	194.1	211.0	INS	4	1
72083	Hearst	Trembley St (E of Quirion)	58	36.4	48.5	76.0	116.8	198.7	408.8	455.0	106.2	81.7	16
72102	Englehart	Kap King Wan Rd	61	9.0	18.0	27.0	36.0	48.0	79.4	104.0	29.3	24.4	0
72103	Englehart	128 King St	32	14.1	23.3	29.0	38.4	50.9	79.1	85.0	INS	0	1
72107	Englehart	Einglehart	61	14.0	20.0	29.0	38.0	52.0	71.4	75.0	31.4	27.4	0
77026	Sudbury	19 Lisgar St	19	37.8	44.0	53.0	56.6	67.6	80.7	83.0	INS	0	1
77070	Copper Cliff	Pumphouse Nickel St.	18	28.0	36.2	44.0	47.0	55.3	61.0	62.0	INS	0	1

**TABLE 15 Lead (Pb) in TSP Statistics (1996)**  
 Unit = micrograms/m<sup>3</sup>  
 Pb 24-hour AAQC is 2.0 micrograms/m<sup>3</sup>

Stn	City	Location	Number of Samples	PERCENTILE S			Arith Mean	Geom Mean	# of times Above Criterion 24 h
				10%	30%	50%			
12007	Windsor	Wright/Water St	42	0.01	0.01	0.02	0.03	0.04	0.05
12008	Windsor	467 University Av W	49	0.01	0.02	0.02	0.03	0.04	0.06
12009	Little River	9725 Riverside Dr E	48	0.01	0.01	0.01	0.01	0.01	0.02
12011	Windsor	Drouillard/Richmond St	49	0.01	0.01	0.02	0.02	0.04	0.06
12013	Windsor	Filtrat Pl, 3665 Wyandotte St E	52	0.01	0.01	0.02	0.03	0.05	0.07
12015	Windsor	Sewage Stn Hwy 18/Prospect	52	0.01	0.01	0.02	0.02	0.04	0.05
12016	Windsor	College/South St	46	0.01	0.01	0.02	0.03	0.04	0.06
12038	Windsor	2885 Howard Av	49	0.01	0.02	0.03	0.07	0.14	0.68
12058	Windsor	Columbus Centre	36	0.01	0.01	0.02	0.04	0.05	0.05
12060	Windsor	2335 Dougall Ave	48	0.01	0.01	0.02	0.02	0.04	0.36
12061	Windsor	1531 Crawford St	53	0.01	0.01	0.02	0.02	0.04	2.14
14016	Courttright	Hwy40 (OPP Lambton GS)	54	0.01	0.01	0.01	0.02	0.03	0.08
14030	Corunna	Rt1 (W of house)	56	0.01	0.01	0.01	0.01	0.02	0.02
14064	Sarnia	Centennial Pk, Front St/Cn Tracks	49	0.01	0.01	0.01	0.02	0.03	0.06
15009	Longwoods	Longwoods Conservation	50	0.01	0.01	0.01	0.01	0.02	0.03
15025	London	900 Lighborough Ave	13	0.01	0.01	0.01	0.02	0.02	0.02
22907	Nanticoke	Rainham Rd (Near Stelco Gate)	19	0.01	0.01	0.01	0.02	0.04	0.09
27008	St Catharines	71 King St	14	0.01	0.02	0.02	0.03	0.04	0.04
27047	Port Colborne	Davis/Frazer	12	0.01	0.01	0.02	0.02	0.03	0.06
27052	Thorold	185 Queen St S	34	0.01	0.01	0.02	0.03	0.04	0.06
28011	Hamilton	Burlington/Ledds	49	0.01	0.03	0.05	0.07	0.09	0.11
28012	Hamilton	Burlington/Wellington	9	0.01	0.01	0.01	0.01	0.03	0.05
29025	Hamilton	Barton/Wentworth	53	0.01	0.02	0.03	0.06	0.15	0.17
29098	Hamilton	Bay/Main St	9	0.01	0.01	0.01	0.01	0.05	0.09
29102	Hamilton	467 Beach Blvd	52	0.01	0.01	0.01	0.02	0.06	0.06
29114	Hamilton	Vickers Rd/East 18th St	48	0.01	0.01	0.01	0.02	0.04	0.09
31045	Toronto	Bruce Ps 51 Larchmount Av	167	0.01	0.01	0.01	0.03	0.08	0.20
31058	Toronto	Mosley/Leslie Sts	264	0.02	0.04	0.07	0.20	0.53	1.14
31065	Toronto	613 Eastern Av	266	0.01	0.02	0.04	0.14	0.42	1.10
31082	Toronto	Works Dept., 138 Hamilton Av	274	0.01	0.01	0.01	0.03	0.09	0.12
31303	Toronto	Toronto (Osgoode)	24	0.01	0.01	0.02	0.03	0.04	0.05
46047	Mississauga	Mississauga Rd S/Port St	16	0.31	0.65	1.20	2.55	4.50	5.30
46117	Mississauga	Meadow Pk, Apple Lane Club	52	0.01	0.01	0.01	0.02	0.04	0.05
63200	Thunder Bay	MTC 615 James St S	22	0.01	0.01	0.01	0.01	0.04	0.08
71042	Sault Ste Marie	Pumphouse, Bonney St	49	0.01	0.01	0.01	0.02	0.11	0.94
71049	Sault Ste Marie	Land Office, Queen St	25	0.01	0.01	0.02	0.02	0.03	0.03
71068	Sault Ste Marie	Wm Merrifield School	22	0.01	0.01	0.02	0.03	0.07	0.07
77026	Sudbury	19 Lisan St	19	0.01	0.02	0.03	0.05	0.07	0.07
77070	Copper Cliff	Pumphouse Nickel St	18	0.01	0.02	0.04	0.06	0.10	0.11

**TABLE 16 Iron (Fe) in TSP Statistics (1996)**  
Unit: micrograms/m<sup>3</sup>

Stn	City	Location	Number of Samples	P E R C E N T I L E S						Arith. Mean	Geom Mean	
				10%	30%	50%	70%	90%	99%			
12007	Windsor	Wright/Water St	42	0.6	1.0	1.5	2.3	3.5	4.5	4.7	1.8	1.5
12008	Windsor	467 University Av W	49	0.5	0.7	0.9	1.4	2.0	3.1	3.6	1.1	1.0
12011	Windsor	Drouillard Rd/Richmond St	49	0.7	0.8	1.0	1.3	2.1	3.1	3.2	1.2	1.1
12013	Windsor	Filtrat Pit 3665 Wyandotte St E	52	0.5	0.7	1.3	2.0	4.3	12.5	15.0	2.1	1.4
12015	Windsor	Sewage Stn Hwy 1&Prospect	52	0.7	1.2	1.7	2.5	3.9	8.6	9.4	2.1	1.7
12016	Windsor	College/South St	46	0.5	1.0	1.3	1.9	2.7	5.0	5.0	1.5	1.2
12038	Windsor	2885 Howard Av	49	1.5	3.4	6.3	9.5	16.0	44.1	47.0	8.8	5.6
12058	Windsor	Columbus Centre	36	0.8	1.0	1.4	2.2	4.1	7.9	9.4	INS	INS
12060	Windsor	2353 Dougal Ave	48	0.6	0.8	1.0	1.3	1.8	4.4	5.8	1.2	1.0
12061	Windsor	1531 Crawford St	53	0.7	1.0	1.4	1.8	3.5	5.8	6.4	1.7	1.4
14016	Courttright	Hwy40 (OPP Lambton GS)	54	0.1	0.2	0.3	0.4	0.5	0.7	0.8	0.3	0.2
14030	Coronora	Rt1 (W of House)	56	0.1	0.1	0.2	0.3	0.5	0.6	0.6	0.2	0.2
14064	Samia	Centennial Pk, Front St/Cn Tracks	49	0.2	0.3	0.4	0.5	0.7	1.2	1.2	0.4	0.3
15009	Longwood	Longwoods Conservation	50	0.1	0.1	0.2	0.3	0.5	2.7	4.8	0.3	0.1
15025	London	900 Highbury Ave	13	0.2	0.4	0.4	0.5	0.8	1.0	1.0	INS	INS
22907	Nanaimo	Rainham Rd (Near Stelco Gate)	19	0.3	0.7	1.2	1.9	2.9	3.5	3.5	INS	INS
27008	St Catharines	71 King St	14	0.3	0.5	0.5	0.6	1.1	1.9	2.0	INS	INS
27047	Port Colborne	Davis/Frazer	12	0.2	0.4	0.4	0.5	0.8	0.9	0.9	INS	INS
27052	Thorold	185 Queen St S	34	0.5	1.0	1.1	1.3	3.7	5.1	5.5	INS	INS
29011	Hamilton	Burlington/LCeds	49	1.0	2.0	3.8	5.2	8.4	14.1	17.0	4.4	3.3
29012	Hamilton	Burlington/Wellington	9	0.2	0.4	0.5	0.6	1.5	2.4	2.5	INS	INS
29025	Hamilton	Barton/Wentworth	53	0.6	1.0	1.6	3.2	7.4	10.9	12.0	2.8	1.8
29098	Hamilton	Bay/Main St	9	0.2	0.4	0.5	0.9	1.7	1.7	1.7	INS	INS
29102	Hamilton	467 Beach Blvd	52	0.4	1.4	2.0	2.9	4.3	7.2	8.1	2.3	1.7
29114	Hamilton	Vickers Rd/East 18Th St	48	0.2	0.3	0.6	1.2	2.6	6.0	6.4	1.1	0.6
31058	Toronto	Mosley/Leslie Sts	264	0.3	0.6	0.7	1.1	1.8	2.8	4.2	0.9	0.7
31303	Toronto	Toronto (Osgoode)	10	2.0	2.1	2.8	3.3	3.6	4.0	4.0	INS	INS
46117	Mississauga	Meadow Pk, Apple Lane Club	52	0.1	0.2	0.3	0.5	0.6	1.0	1.1	0.4	0.3
71042	Sault Ste Marie	Pumphouse, Bonney St	49	0.9	1.7	3.4	7.7	20.6	46.6	49.0	8.1	4.0
71049	Sault Ste Marie	Land Office, Queen St	25	0.2	0.6	1.2	1.8	2.3	2.7	2.7	INS	INS
71068	Sault Ste Marie	Wm. Merrifield School	22	0.3	1.1	1.8	3.0	4.4	8.9	10.0	INS	INS
77026	Sudbury	19 Ligar St	19	0.4	0.6	0.9	1.1	1.5	2.2	2.3	INS	INS
77070	Copper Cliff	Pumphouse Nickel St.	18	0.2	0.5	0.7	1.2	1.6	4.5	5.1	INS	INS

**TABLE 17 Manganese (Mn) in TSP Statistics (1996)**  
 Unit = micrograms/m<sup>3</sup>,  
 Mn - 24h AAQC is 2.5 micrograms/m<sup>3</sup>

Sln	City	Location	Number of Samples	P E R C E N T I L E S			Arith Mean	Geom Mean	# of times Above Criterion 24 h				
				10%	30%	50%							
12007	Windsor	Wright/Water St	42	0.020	0.029	0.040	0.060	0.080	0.112	0.120	0.048	0.041	0
12008	Windsor	467 University Av W	49	0.018	0.027	0.030	0.039	0.056	0.087	0.091	0.036	0.032	0
12011	Windsor	Drouillard Rd/Richmond St	49	0.018	0.025	0.034	0.043	0.077	0.146	0.180	0.042	0.035	0
12013	Windsor	Filtat Pit 3665 Wyandotte St E	52	0.016	0.030	0.047	0.072	0.179	0.507	0.680	0.084	0.051	0
12015	Windsor	Sewage SIn Hwy 18/Prospect	52	0.023	0.034	0.052	0.073	0.118	0.234	0.300	0.063	0.050	0
12016	Windsor	College/South St	46	0.019	0.028	0.043	0.058	0.100	0.723	1.200	0.073	0.041	0
12038	Windsor	2885 Howard Av	49	0.032	0.064	0.092	0.140	0.244	0.532	0.580	0.125	0.087	0
12058	Windsor	Columbus Centre	36	0.022	0.029	0.034	0.052	0.076	0.102	0.110	0.055	0.033	0
12060	Windsor	2335 Dougall Ave	48	0.016	0.023	0.029	0.040	0.054	0.087	0.097	0.033	0.027	0
12061	Windsor	1331 Crawford St	53	0.018	0.029	0.042	0.051	0.076	0.149	0.170	0.046	0.039	0
14016	Courttright	Hwy 40 (OPIP Lambton GS)	54	0.001	0.004	0.008	0.010	0.015	0.031	0.044	0.008	0.005	0
14030	Coronation	Rt 1 (W of House)	56	0.001	0.004	0.007	0.009	0.012	0.018	0.019	0.007	0.005	0
14064	Samia	Centennial Pk, Front St/Cn Tracks	49	0.006	0.009	0.012	0.017	0.019	0.023	0.024	0.013	0.011	0
15009	Longwoods	Longwoods Conservation	50	0.001	0.002	0.006	0.011	0.016	0.083	0.140	0.010	0.005	0
15025	London	900 Highbury Ave	13	0.008	0.014	0.017	0.025	0.027	0.038	0.039	0.015	0.005	0
22907	Nanticoke	Rainham Rd (Near Stelco Gate)	19	0.012	0.029	0.047	0.074	0.114	0.138	0.140	0.055	0.031	0
27008	St Catharines	71 King St	14	0.018	0.024	0.033	0.038	0.045	0.089	0.095	0.055	0.035	0
27047	Port Colborne	Davis/Frazer	12	0.014	0.016	0.023	0.027	0.040	0.088	0.094	0.055	0.033	0
27052	Thorold	185 Queen St S	34	0.018	0.038	0.050	0.064	0.131	0.204	0.220	0.085	0.055	0
29011	Hamilton	Burlington/Ledds	49	0.081	0.154	0.230	0.360	0.502	1.116	1.500	0.290	0.228	0
29012	Hamilton	Burlington/Wellington	9	0.012	0.026	0.037	0.047	0.101	0.199	0.210	0.055	0.031	0
29025	Hamilton	Barton/Wentworth	53	0.052	0.076	0.130	0.272	0.518	2.632	4.400	0.288	0.145	1
29098	Hamilton	Bay/Main St	9	0.016	0.023	0.031	0.051	0.103	0.136	0.140	0.055	0.031	0
29102	Hamilton	467 Beach Blvd	52	0.024	0.071	0.100	0.150	0.209	0.329	0.370	0.117	0.088	0
29114	Hamilton	Vickers Rd/Fast 18Th St	48	0.010	0.018	0.025	0.047	0.120	0.281	0.290	0.053	0.031	0
31058	Toronto	Mosley/Leslie Sts	264	0.013	0.023	0.032	0.047	0.074	0.141	0.180	0.039	0.031	0
31303	Toronto	Toronto (Osgoode)	10	0.068	0.084	0.105	0.123	0.132	0.150	0.155	0.055	0.031	0
46117	Mississauga	Meadow Pk, Apple Lane Club	52	0.006	0.010	0.014	0.019	0.025	0.043	0.050	0.015	0.013	0
71042	Sault Ste Marie	Pumphouse, Bonney St	49	0.046	0.128	0.210	0.306	0.740	1.132	1.300	0.302	0.193	0
71049	Sault Ste Marie	Land Office, Queen St	25	0.017	0.033	0.061	0.095	0.152	0.720	0.890	0.055	0.031	0
71068	Sault Ste Marie	Wm Merrifield School	22	0.022	0.060	0.110	0.188	0.369	0.787	0.890	0.055	0.031	0
77026	Sudbury	19 Lisgar St	19	0.012	0.018	0.019	0.025	0.031	0.036	0.036	0.015	0.013	0
77070	Copper Cliff	Pumphouse Nickel St.	18	0.005	0.010	0.015	0.020	0.023	0.036	0.038	0.015	0.013	0

**TABLE 18 Nickel (Ni) in TSP Statistics (1996)**

Unit = micrograms/m<sup>3</sup>  
Ni - 24h AAQC is 2.0 micrograms/m<sup>3</sup>

Stn	City	Location	Number of Samples	P E R C E N T I L E S			Arith Mean	Geom Mean	# of times Above Criterion 24 h			
				10%	30%	50%	70%	90%	Max			
12007	Windsor	Wright/Walter St	42	0.006	0.007	0.008	0.010	0.013	0.016	0.016	0.008	0
12008	Windsor	467 University Av W	49	0.001	0.005	0.007	0.010	0.015	0.025	0.031	0.008	0
12011	Windsor	Drouillard Rd/Richmond St	49	0.002	0.005	0.007	0.010	0.016	0.028	0.030	0.008	0
12013	Windsor	Filtrat Pl 3665 Wyandotte St E	52	0.003	0.005	0.006	0.010	0.020	0.035	0.042	0.009	0
12015	Windsor	Sewage Stn Iwiy 18/F Prospect	52	0.002	0.004	0.009	0.012	0.019	0.027	0.028	0.009	0
12016	Windsor	College/South St	46	0.002	0.005	0.008	0.012	0.014	0.035	0.036	0.009	0
12038	Windsor	2883 Howard Av	49	0.002	0.011	0.020	0.027	0.053	0.120	0.130	0.025	0
12058	Windsor	Columbus Centre	36	0.002	0.006	0.008	0.011	0.017	0.031	0.032	0.014	0
12060	Windsor	2335 Dougall Ave	48	0.001	0.004	0.006	0.008	0.014	0.017	0.019	0.007	0.005
12061	Windsor	1531 Crawford St	53	0.002	0.005	0.008	0.011	0.020	0.028	0.031	0.010	0
14016	Courttright	Iwiy 40 (OPP Lambton G.S.)	54	0.001	0.003	0.005	0.008	0.017	0.030	0.033	0.007	0
14030	Corunna	Rrt 1 (W of Iltuse)	56	0.001	0.001	0.003	0.005	0.008	0.015	0.022	0.004	0.003
14064	Sarnia	C.Centennial Pk, Front St/Cn Tracts	49	0.002	0.004	0.007	0.012	0.039	0.097	0.110	0.016	0.008
15009	Longwoods	Longwoods Conservation	50	0.001	0.001	0.002	0.004	0.006	0.016	0.017	0.003	0.002
15025	London	900 Highbury Ave	13	0.003	0.005	0.005	0.008	0.013	0.016	0.016	0.005	0
22907	Hantswocke	Rainham Rd (Near Stelco Gate)	19	0.005	0.007	0.008	0.009	0.012	0.012	0.012	0.007	0
27008	St Catharines	71 King St	14	0.004	0.006	0.007	0.008	0.010	0.012	0.012	0.005	0
27047	Port Colborne	Davis/Frazer	12	0.002	0.006	0.012	0.017	0.035	0.063	0.066	0.015	0
27052	Thorold	185 Queen St S	34	0.005	0.007	0.013	0.018	0.074	0.140	0.150	0.016	0
29011	Hamilton	Burlington/Ledcs	49	0.003	0.009	0.014	0.021	0.028	0.043	0.048	0.016	0.011
29012	Hamilton	Burlington/Wellington	9	0.001	0.002	0.002	0.003	0.008	0.011	0.011	0.005	0
29025	Hamilton	Barton/Wentworth	53	0.003	0.007	0.009	0.015	0.027	0.036	0.038	0.012	0.009
29098	Hamilton	Bay/Main St	9	0.003	0.004	0.006	0.008	0.011	0.013	0.013	0.005	0
29102	Hamilton	467 Beach Blvd	52	0.001	0.004	0.009	0.014	0.018	0.022	0.024	0.009	0
29114	Hamilton	Vickers Rd/East 18th St	48	0.001	0.001	0.003	0.006	0.009	0.021	0.024	0.005	0.003
31058	Toronto	Mosley/Leslie Sts	264	0.001	0.003	0.006	0.009	0.015	0.043	0.830	0.011	0.005
31303	Toronto	Toronto (Osgoode)	10	0.006	0.010	0.012	0.013	0.016	0.020	0.020	0.015	0
46117	Mississauga	Meadow Pk, Apple Lane Club	52	0.001	0.002	0.003	0.005	0.010	0.013	0.013	0.004	0.003
71042	Sault Ste Marie	Pumphouse, Bonny St	49	0.001	0.004	0.011	0.020	0.045	0.130	0.140	0.020	0.009
71049	Sault Ste Marie	Land Office, Queen St	25	0.002	0.003	0.005	0.007	0.010	0.012	0.012	0.005	0
71068	Sault Ste Marie	Wm. Merrifield School	22	0.004	0.005	0.008	0.014	0.017	0.031	0.035	0.005	0
71026	Sudbury	19 Legar St	19	0.028	0.038	0.097	0.198	0.586	1.069	1.100	0.005	0
77070	Copper Cliff	Pumphouse Nickel St	18	0.070	0.144	0.225	0.278	0.708	1.349	1.400	0.005	0

TABLE 19 Chromium (Cr) in TSP Statistics (1996)

Units = micrograms/m<sup>3</sup>  
Cr - 24h AAQC is 1.5 microgram/m<sup>3</sup>

Sln	City	Location	Number of Samples	P E R C E N T I L E S			Arith. Mean	Geom. Mean	# of times Above Criterion 24 h
				10%	30%	50%			
12007	Windsor	Wright/Water St	42	0.006	0.011	0.012	0.015	0.021	0.029
12008	Windsor	467 University Av. W	49	0.004	0.007	0.009	0.012	0.018	0.032
12011	Windsor	Drouillard Rd/Richmond St	49	0.001	0.004	0.008	0.013	0.017	0.028
12013	Windsor	Filtrat Pk 3665 Wyanodotte St E	52	0.001	0.005	0.010	0.015	0.031	0.098
12015	Windsor	Sewage Stn Hwy 18/Prospect	52	0.002	0.006	0.010	0.017	0.026	0.042
12016	Windsor	College/South St	46	0.002	0.007	0.010	0.014	0.020	0.056
12038	Windsor	2885 Howard Av	49	0.010	0.024	0.038	0.062	0.108	0.241
12058	Windsor	Columbus Centre	36	0.006	0.008	0.012	0.016	0.036	0.033
12060	Windsor	2335 Dougall Ave	48	0.001	0.006	0.009	0.012	0.016	0.030
12061	Windsor	1531 Crawford St	53	0.005	0.009	0.011	0.016	0.028	0.073
14016	Courttright	Hwy 40 (Opp Lambton GS)	54	0.001	0.001	0.004	0.006	0.009	0.035
14030	Corunna	Rrt 1 W of House	56	0.001	0.001	0.002	0.004	0.008	0.011
14064	Santia	Centennial Pk, Front St/Cn Trcks	49	0.001	0.001	0.003	0.004	0.007	0.010
15019	Longwoods	Longwoods Conservation	50	0.001	0.001	0.001	0.004	0.005	0.018
15025	London	900 Highway Ave	13	0.001	0.001	0.003	0.004	0.006	0.010
22907	Nanticoke	Rainham Rd (Near Stelco Ctric)	19	0.003	0.007	0.012	0.014	0.022	0.023
27008	St Catharines	71 King St	14	0.001	0.005	0.011	0.012	0.017	0.055
27047	Port Colborne	Davis/Frazier	12	0.001	0.004	0.005	0.006	0.009	0.016
27052	Thorold	185 Queen St S	34	0.126	0.266	0.480	0.802	3.240	5.639
29011	Hamilton	Burlington/Ledcs	49	0.024	0.044	0.072	0.092	0.140	0.215
29012	Hamilton	Burlington/Wellington	9	0.002	0.005	0.006	0.006	0.040	0.130
29025	Hamilton	Barton/Wentworth	53	0.009	0.014	0.025	0.072	0.190	0.424
29098	Hamilton	Bay/Main St	9	0.002	0.002	0.004	0.014	0.036	0.063
29102	Hamilton	467 Beach Blvd	52	0.002	0.010	0.018	0.026	0.044	0.065
29114	Hamilton	Vickers Rd/East 18th St	48	0.001	0.003	0.006	0.014	0.032	0.084
31303	Toronto	Toronto (Osgoode)	10	0.015	0.018	0.027	0.029	0.033	0.037
46117	Mississauga	Meadow Pk, Apple Lane Club	52	0.001	0.002	0.003	0.005	0.009	0.014
71042	Sault Ste Marie	Pumphouse, Bonney St	49	0.004	0.016	0.031	0.053	0.102	0.195
71049	Sault Ste Marie	Land Office, Queen St	25	0.001	0.004	0.007	0.013	0.017	0.019
71068	Sault Ste Marie	Wm. Merrifield School	22	0.003	0.007	0.012	0.021	0.034	0.083
77026	Sudbury	191 cigar St	19	0.001	0.002	0.005	0.007	0.010	0.016
77070	Copper Cliff	Pumphouse Nickel St.	18	0.001	0.002	0.005	0.008	0.013	0.028
77070	Copper Cliff	Pumphouse Nickel St.	18	0.001	0.002	0.005	0.008	0.013	0.028

**TABLE 20 Vanadium (V) in TSP Statistics (1996)**

Unit = micrograms/m<sup>3</sup>  
V - 24h AAQC is 2.0 micrograms/m<sup>3</sup>

Stn City	Location	Number of Samples	P E R C E N T I L E S						Geom Mean	# of times above Criterion
			10%	30%	50%	70%	90%	99%		
12007 Windsor	Wright/Water St	42	0.001	0.001	0.003	0.008	0.012	0.016	0.017	0.003
12008 Windsor	467 University Av W	49	0.001	0.001	0.003	0.006	0.012	0.018	0.019	0.003
12011 Windsor	Drouillard Rd/Richmond St	49	0.001	0.001	0.004	0.008	0.010	0.013	0.014	0.005
12013 Windsor	Filtrat Pit 3665 Wyandotte St E	52	0.001	0.001	0.002	0.006	0.013	0.028	0.034	0.005
12015 Windsor	Sewage Stn Hwy 18/Prospect	52	0.001	0.001	0.004	0.008	0.013	0.022	0.023	0.005
12016 Windsor	College/South St	46	0.001	0.001	0.001	0.006	0.010	0.017	0.017	0.004
12038 Windsor	2885 Howard Av	49	0.001	0.006	0.014	0.027	0.063	0.083	0.084	0.010
12058 Windsor	Columbus Centre	36	0.001	0.003	0.006	0.007	0.011	0.013	0.014	INS
12060 Windsor	2335 Dougal Ave	48	0.001	0.001	0.002	0.005	0.010	0.016	0.017	0.004
12061 Windsor	1531 Crawford St	53	0.001	0.001	0.004	0.006	0.010	0.019	0.022	0.005
14016 Courtright	Hwy 40 (Opp/1ambition GS)	54	0.001	0.001	0.002	0.002	0.017	0.034	0.038	0.006
14030 Corunna	Rr1 (W of House)	56	0.001	0.001	0.001	0.002	0.005	0.030	0.046	0.002
14064 Sarnia	Centennial Pk, Front St/Cn Tracks	49	0.001	0.001	0.002	0.009	0.054	0.161	0.180	0.018
15009 Longwoods	Longwoods Conservation	50	0.001	0.001	0.001	0.001	0.002	0.006	0.007	0.002
15025 London	900 Highbury Ave	13	0.001	0.001	0.001	0.001	0.001	0.001	0.001	INS
22907 Nanticoke	Rainham Rd (Near Stelco Gate)	19	0.001	0.001	0.004	0.006	0.008	0.010	0.011	INS
27008 St Catharines	71 King St	14	0.001	0.001	0.001	0.001	0.003	0.007	0.008	INS
27047 Port Colborne	Davis/Frazer	12	0.001	0.001	0.001	0.001	0.001	0.002	0.002	INS
27052 Thorold	185 Queen St S	34	0.001	0.008	0.013	0.019	0.070	0.094	0.097	INS
29011 Hamilton	Burlington/Leeds	49	0.001	0.006	0.013	0.021	0.027	0.045	0.045	0.009
29012 Hamilton	Burlington/Walton	9	0.001	0.001	0.002	0.005	0.008	0.013	0.014	INS
29025 Hamilton	Battan/Wentworth	53	0.001	0.004	0.007	0.015	0.027	0.035	0.038	0.011
29098 Hamilton	Bay/Main St	9	0.001	0.001	0.003	0.005	0.007	0.009	0.009	INS
29102 Hamilton	467 Beach Blvd	52	0.001	0.001	0.004	0.010	0.017	0.022	0.023	0.007
29114 Hamilton	Vickers Rd/Fast 181th St	48	0.001	0.001	0.001	0.004	0.010	0.024	0.025	0.004
31058 Toronto	Mosley/Leslie Sts	264	0.001	0.001	0.001	0.004	0.008	0.017	0.021	0.002
31303 Toronto	Toronto (Osgoode)	10	0.009	0.013	0.016	0.018	0.019	0.019	0.019	INS
46117 Mississauga	Meadow Pk, Apple Lane Club	52	0.001	0.001	0.001	0.005	0.007	0.008	0.002	0.001
7042 Sault Ste Marie	Pumphouse, Bonney St	49	0.001	0.003	0.009	0.020	0.031	0.100	0.120	0.017
7049 Sault Ste Marie	Land Office, Queen St	25	0.001	0.001	0.003	0.007	0.011	0.014	0.015	INS
71068 Sault Ste Marie	Wm Merrifield School	22	0.001	0.001	0.002	0.006	0.018	0.034	0.036	INS
77026 Sudbury	19 Joligat St	19	0.001	0.004	0.007	0.009	0.009	0.009	0.009	0
77070 Copper Cliff	Pumphouse Nickel St.	18	0.001	0.002	0.004	0.007	0.011	0.012	0.012	INS

**TABLE 21 Copper (Cu) in TSP Statistics (1996)**  
 Unit = micrograms/m<sup>3</sup>  
 Cu - 24h AAQC is 50 micrograms/m<sup>3</sup>

SIn	City	Location	Number of Samples	PERCENTILE S						Arith Mean	Geom Mean	# of times Above Criterion 24 h
				10%	30%	50%	70%	90%	99%			
12007	Windsor	Wright/Water St	42	0.01	0.02	0.04	0.05	0.08	0.13	0.15	0.04	0.03
12008	Windsor	467 University Av W	49	0.02	0.02	0.03	0.04	0.05	0.07	0.07	0.03	0.03
12011	Windsor	1901 Todd Rd/Richmond St	49	0.01	0.02	0.02	0.03	0.04	0.05	0.05	0.02	0.02
12013	Windsor	Filtrat Pit 3665 Wandotte St E	52	0.01	0.02	0.03	0.04	0.07	0.08	0.03	0.02	0
12015	Windsor	Sewage SIn Hwy 18/Prospect	52	0.01	0.02	0.02	0.04	0.06	0.08	0.09	0.03	0.02
12016	Windsor	College/South St	46	0.01	0.01	0.02	0.07	0.12	0.18	0.19	0.04	0.02
12038	Windsor	2885 Howard Av	49	0.03	0.05	0.06	0.09	0.12	0.15	0.16	0.07	0.06
12058	Windsor	Columbus Centre	36	0.02	0.04	0.04	0.05	0.07	0.07	0.07	0.07	0
12060	Windsor	2335 Dougal Ave	48	0.01	0.01	0.01	0.02	0.02	0.02	0.07	0.09	0.01
12061	Windsor	1534 Crawford St	53	0.01	0.01	0.02	0.03	0.04	0.07	0.08	0.02	0.02
14016	Courtright	Hwy 40 (OPP/Lambton GS)	54	0.03	0.07	0.14	0.21	0.34	0.78	0.79	0.18	0.12
14030	Connaught	Rte 1 (W of House)	56	0.01	0.01	0.02	0.04	0.06	0.07	0.07	0.01	0
14064	Samia	Centennial Pk, Front St/Cn Tracks	49	0.01	0.01	0.02	0.03	0.04	0.07	0.08	0.02	0.02
15009	Longwoods	Longwoods Conservation	50	0.01	0.01	0.02	0.03	0.04	0.11	0.13	0.02	0
15025	London	900 Highbury Ave	13	0.31	0.36	0.53	0.64	0.94	1.44	1.50	INS	0
22907	Naticoke	Rainham Rd (Near Stelco Gate)	19	0.01	0.03	0.05	0.08	0.12	0.14	0.14	INS	0
27008	St Catharines	71 King St	14	0.14	0.15	0.25	0.34	0.45	0.48	0.48	INS	0
27047	Port Colborne	Davis/Frazer	12	0.12	0.13	0.15	0.19	0.27	0.30	0.30	INS	0
27052	Thorold	185 Queen St S	34	0.04	0.07	0.10	0.12	0.19	0.32	0.36	INS	0
29011	Hamilton	Burlington/Ledcs	49	0.05	0.08	0.09	0.12	0.15	0.18	0.18	0.10	0.09
29012	Hamilton	Burlington/Wentworth	9	0.04	0.05	0.05	0.06	0.07	0.07	0.07	INS	0
29025	Hamilton	Brierton/Wentworth	53	0.07	0.10	0.11	0.13	0.16	0.17	0.18	0.11	0.11
29038	Hamilton	Bay/Main St	9	0.03	0.04	0.06	0.07	0.08	0.09	0.09	INS	0
29102	Hamilton	467 Beach Blvd	52	0.03	0.04	0.06	0.07	0.10	0.13	0.15	0.06	0.05
29114	Hamilton	Vickers Rd/Fast 18Th St	48	0.03	0.04	0.05	0.06	0.08	0.10	0.10	0.05	0
31058	Toronto	Mosley/Leslie Sts	264	0.08	0.14	0.24	0.35	0.57	1.02	1.60	0.29	0.22
31303	Toronto	Toronto (Osgoode)	10	0.15	0.19	0.21	0.22	0.23	0.27	0.27	INS	0
46117	Mississauga	Meadow Pk, Apple Lane Club	52	0.15	0.24	0.32	0.39	0.47	0.56	0.56	0.31	0.29
71042	Sault Ste Marie	Pumphouse, Bonney St	49	0.07	0.10	0.14	0.18	0.22	0.45	0.48	0.15	0.13
71049	Sault Ste Marie	Land Office, Queen St	25	0.03	0.04	0.05	0.07	0.10	0.15	0.17	INS	0
71068	Sault Ste Marie	Wm. Mennfield School	22	0.26	0.33	0.39	0.46	0.60	0.75	0.79	INS	0
77026	Sudbury	19 Ligar St	19	0.03	0.05	0.08	0.13	0.48	0.67	0.68	INS	0
77070	Copper Cliff	Pumphouse Nickel St.	18	0.09	0.14	0.20	0.26	0.77	1.39	1.50	INS	0

**TABLE 22 Nitrate ( $\text{NO}_3^-$ ) in TSP Statistics (1996)**  
**Unit = micrograms/m<sup>3</sup>**

Stn	City	Location	Number of Samples	PERCENTILE						Arith Mean	Geom Mean
				10%	30%	50%	70%	90%	99%		
12007	Windsor	Wright/Water St	42	1.9	3.0	4.7	6.3	8.8	10.2	10.2	5.0
12008	Windsor	467 University Av W	49	2.7	3.9	5.9	7.8	9.6	12.3	12.7	6.1
12015	Windsor	Sewage Snt Hwy 18/Prospect	52	2.8	5.1	6.2	7.9	9.8	15.9	15.9	5.9
12016	Windsor	College/South St	46	2.1	4.2	5.4	7.7	9.8	13.1	14.8	5.0
12038	Windsor	2885 Howard Av	49	2.1	4.1	5.6	7.5	10.1	15.7	16.5	6.0
12053	Anthersburg	415 Front St	47	2.6	4.0	5.8	7.0	9.4	12.0	13.0	5.8
12058	Windsor	Columbus Centre	49	2.5	4.1	5.4	7.5	9.6	12.9	14.3	5.9
14016	Courttright	Hwy 40 (OHP, Lambton G/S)	54	2.2	3.4	4.6	5.5	6.9	10.7	12.6	4.6
14064	Sania	Centennial Pk, Front St/Cn Trunks	49	2.2	3.2	4.6	5.8	8.0	12.3	14.6	4.2
22004	Nanticoke	Walpole St/P Sandusk Rd	55	1.9	3.1	4.7	5.9	9.1	10.9	11.7	5.0
27008	St Catharines	71 King St	14	2.2	3.7	4.2	5.6	8.2	10.0	10.2	INS
29011	Hamilton	Burlington/Leeds	49	1.6	2.4	3.9	5.4	7.8	10.5	11.1	4.3
29025	Hamilton	Barton/Wentworth	53	1.9	2.9	4.5	6.1	8.4	12.1	13.0	4.9
29098	Hamilton	Bay/Main St	9	2.1	3.0	3.5	5.4	11.0	18.6	19.4	INS
29102	Hamilton	467 Beach Blvd	52	1.6	2.6	3.8	6.0	8.3	13.9	18.5	4.8
29114	Hamilton	Vickers Rd/Fast 18Th St	48	2.1	3.2	5.1	6.2	8.4	11.7	12.4	5.1
63121	Thunder Bay	Lacasse Drive	54	0.5	0.7	1.1	1.6	2.8	4.1	4.1	1.1
63200	Thunder Bay	MTG 615 James St S	22	0.6	1.0	1.3	2.1	3.9	4.9	5.0	INS
71068	Sault Ste Marie	Wm. Merrifield School	22	1.2	1.7	2.0	3.7	7.4	9.6	10.1	INS
77026	Sudbury	19 Linsgar St	19	1.0	1.4	1.6	2.6	4.7	6.7	6.8	INS

**TABLE 23 Sulphate ( $\text{SO}_4^2-$ ) in TSP Statistics (1996)**  
 Unit =micrograms/m<sup>3</sup>

Stn	City	Location	Number of Samples	PERCENTILES						Arith Mean	Geom Mean
				10%	30%	50%	70%	90%	99%		
12007	Windsor	Wright/Water St	42	8.8	11.9	15.8	18.1	21.3	43.1	57.1	15.9
12008	Windsor	467 University Av W	49	7.5	9.5	10.9	12.1	17.7	22.4	24.3	11.6
12015	Windsor	Sewage Stn Hwy 18/Prospect	52	9.6	12.2	15.7	18.8	22.8	24.8	25.6	15.6
12016	Windsor	College/South St	46	9.5	11.2	12.8	16.0	19.1	22.9	23.8	13.7
12038	Windsor	2883 Howard Av	49	8.7	10.2	11.8	14.1	18.3	24.1	25.3	12.7
12053	Amherstburg	415 Front St	47	7.5	9.4	11.2	13.7	17.1	19.9	21.6	11.9
12058	Windsor	Columbus Centre	49	5.3	7.8	9.7	11.3	16.2	21.0	21.9	10.2
14016	Courtright	Hwy40 (OPP Lambton GS)	54	8.0	9.4	10.5	11.4	14.2	22.7	29.3	10.8
14064	Sarnia	Centennial Pk, Front St/Cn Tracks	49	9.9	14.6	16.8	18.6	23.9	36.5	40.9	17.2
22904	Nanticoke	Walpole S Ps Sandusky Rd	55	7.2	10.6	12.6	15.1	19.2	33.0	42.2	13.4
27008	St Catharines	71 King St	14	7.7	11.3	12.9	15.6	16.7	17.5	17.6	INS
29011	Hamilton	Burlington/Leeds	49	9.8	11.6	13.9	19.0	21.8	41.9	54.6	15.8
29025	Hamilton	Barton/Wentworth	53	10.4	14.4	17.7	21.1	24.5	43.1	51.2	18.5
29098	Hamilton	Bay/Main St	9	10.6	13.7	15.9	17.5	19.4	20.9	21.1	INS
29102	Hamilton	467 Beach Blvd	52	10.0	12.8	14.2	19.2	23.7	33.5	40.9	16.0
29114	Hamilton	Vickers Rd/East 18th St	48	7.2	9.8	11.4	14.5	19.7	33.6	42.5	13.3
63121	Thunder Bay	Lucas Drive	54	1.6	3.0	4.2	5.7	7.7	13.0	13.5	4.7
63200	Thunder Bay	MTC 615 James St S	22	2.9	3.5	3.9	4.8	7.0	9.0	9.4	INS
71068	Sault Ste Marie	Wm Merrifield School	22	5.3	7.1	11.0	14.0	16.9	20.5	21.4	INS
77026	Sudbury	19 Lissag St	19	9.5	11.7	13.3	15.7	19.7	21.2	21.4	INS

**TABLE 24 Inhalable Particle (PM<sub>10</sub>) 24-Hour Statistics (1996)**  
**Unit= micrograms/m<sup>3</sup>**  
**PM<sub>10</sub> - 24h Interim AAQC is 50 micrograms/m<sup>3</sup>**

Stn City	Location	Number of Samples	PERCENTILES						Geom Mean	% of days >50
			10%	30%	50%	70%	90%	99%		
12507 Windsor	PM10 Wright/Water St	48	19.4	22.0	26.0	31.0	40.2	57.4	63.0	28.3
12508 Windsor	PM10 467 University Ave W	49	15.0	18.0	22.0	25.0	33.8	50.9	60.0	23.2
12513 Windsor	PM10 3665 Wyndotte St E	51	17.0	21.0	25.0	33.0	51.0	76.5	80.0	30.1
15525 London	PM10 900 Highway Ave.	45	9.4	14.0	18.0	22.0	25.0	35.7	37.0	16.7
22304 Nanticoke	PM10 Walpole Ps Sandusky Rd	55	6.4	10.0	13.0	15.8	22.0	46.4	68.0	0.0
27308 St Catharines	PM10 71 King Street	44	11.0	15.0	18.5	23.0	30.7	52.5	68.0	14.2
27352 Thorold	PM10 185 Queen St S	43	15.2	23.0	29.0	33.8	55.2	71.5	74.0	12.3
29300 Hamilton	PM10 Elgin/Kelly St	53	11.2	14.6	23.0	30.0	46.8	81.1	91.0	26.5
29302 Hamilton	PM10 467 Beach Blvd	54	12.0	17.9	22.0	27.1	36.8	63.4	74.0	24.0
29313 Hamilton	PM10 Gertrude/Depew	51	16.0	22.0	30.0	47.0	76.0	106.0	119.0	40.5
29324 Hamilton	PM10 Buchanan Park Ps	51	10.0	13.0	20.0	26.0	38.0	62.0	69.0	20.2
31327 Toronto	PM10 Toronto Downtown	24	19.3	24.0	30.0	39.4	48.1	55.5	56.0	31.4
33127 Scarborough	PM10 Lawrence/Kennedy	26	9.0	13.5	15.0	19.0	24.5	32.8	34.0	14.0
35127 Etobicoke	PM10 Evans/Arnold	48	17.0	21.0	22.5	25.9	37.9	64.7	75.0	22.5
44127 Oakville	PM10 Bronte Rd/Woburn Cr	47	12.0	15.0	20.0	24.0	32.4	68.0	80.0	22.4
46127 Mississauga	PM10 Meadowood Park	53	11.0	13.0	16.0	20.4	30.8	57.0	71.0	19.5
56051 Cornwall	PM10 Memorial Pk Bedford/Third	48	14.7	19.0	21.0	24.9	37.1	63.1	73.0	24.2
62135 Fort Frances	PM10 Legion 250 Church	47	7.0	9.0	14.0	18.0	36.4	70.3	80.0	18.4
63201 Thunder Bay	PM10 615 James St S	54	5.3	9.0	13.0	20.1	35.6	67.9	87.0	14.3
71342 Sault Ste Marie	PM10 Bonney St	52	12.0	20.2	37.5	51.0	80.1	148.2	164.0	42.0
71368 Sault Ste Marie	PM10 Wan Merrifield S	53	7.0	11.6	16.0	23.0	32.0	52.9	56.0	18.7
77326 Sudbury	PM10 19 Ligar St	50	7.0	9.0	12.0	16.0	22.0	35.7	45.0	13.6
77570 Copper Cliff	PM10 Market St	31	5.0	8.0	11.0	13.0	21.0	40.9	46.0	0.0

**TABLE 25 Copper (Cu) in PM10 Statistics (1994-1996)**  
**Unit = micrograms/m<sup>3</sup>**

S/n	City	Location	Number of Samples	PERCENTILE S						Arith Mean	Geom Mean	Year	
				10%	30%	50%	70%	90%	99%				
12507	Windsor	PM10 Wright/Water St	43	0.005	0.005	0.005	0.020	0.026	0.030	0.008	0.006	1994	
12508	Windsor	PM10 467 University Ave W	46	0.005	0.005	0.005	0.020	0.040	0.060	0.016	0.010	1994	
12513	Windsor	PM10 3665 Wyndotte St E	43	0.005	0.005	0.005	0.020	0.030	0.062	0.070	0.013	0.009	1994
15116	London	PM10 801 Commissioners Rd E	32	0.005	0.009	0.020	0.030	0.060	0.060	0.060	0.060	INS	1994
22304	Nanticoke	PM10 Walpole Pa Sandusky Rd	53	0.005	0.005	0.005	0.025	0.030	0.030	0.006	0.006	0.006	1994
27308	St Catharines	PM10 71 King Street	51	0.005	0.005	0.020	0.020	0.030	0.040	0.040	0.015	0.011	1994
27352	Thorold	PM10 185 Queen St S	47	0.005	0.005	0.005	0.020	0.020	0.045	0.050	0.012	0.009	1994
29300	Hamilton	PM10 Elgin/Kelly St	44	0.005	0.020	0.030	0.040	0.063	0.080	0.025	0.021	0.021	1994
29302	Hamilton	PM10 467 Beach Blvd	48	0.005	0.005	0.005	0.020	0.020	0.031	0.040	0.011	0.009	1994
29313	Hamilton	PM10 Gertrude/Depew	48	0.005	0.005	0.020	0.030	0.050	0.065	0.070	0.023	0.016	1994
29324	Hamilton	PM10 Buchanan Park Ps	29	0.005	0.005	0.020	0.020	0.030	0.044	0.050	0.015	0.011	1994
31127	Toronto	PM10 Bay/Grosvenor St	53	0.005	0.014	0.020	0.020	0.030	0.045	0.050	0.019	0.015	1994
46127	Mississauga	PM10 Meadowood Park	53	0.005	0.005	0.020	0.030	0.040	0.050	0.050	0.021	0.015	1994
56051	Cornwall	PM10 Memorial Pk Bedford/Third	44	0.005	0.005	0.020	0.020	0.027	0.057	0.070	0.013	0.009	1994
62335	Fort Frances	PM10 Legion 250 Church	44	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	1994
63201	Thunder Bay	PM10 615 James St S	41	0.005	0.005	0.005	0.020	0.020	0.020	0.020	0.007	0.006	1994
71342	Sault Ste Marie	PM10 Bonney St	54	0.005	0.005	0.005	0.020	0.025	0.030	0.039	0.009	0.007	1994
71368	Sault Ste Marie	PM10 Wm Merrifield S	56	0.005	0.005	0.020	0.020	0.030	0.045	0.050	0.015	0.011	1994
77326	Sudbury	PM10 19 Lisgar St	50	0.005	0.005	0.025	0.060	0.242	0.401	0.460	0.078	0.029	1994
12507	Windsor	PM10 Wright/Water St	48	0.005	0.005	0.005	0.020	0.020	0.062	0.090	0.009	0.007	1995
12508	Windsor	PM10 467 University Ave W	54	0.005	0.005	0.005	0.020	0.025	0.030	0.039	0.009	0.006	1995
12513	Windsor	PM10 3665 Wyndotte St E	56	0.005	0.005	0.020	0.030	0.043	0.050	0.050	0.012	0.009	1995
15516	London	PM10 801 Commissioner Rd E	50	0.005	0.005	0.005	0.005	0.013	0.020	0.005	0.005	0.005	1995
22304	Nanticoke	PM10 Walpole Pa Sandusky Rd	56	0.005	0.005	0.005	0.020	0.020	0.020	0.006	0.006	0.006	1995
27308	St Catharines	PM10 71 King Street	55	0.005	0.005	0.005	0.005	0.020	0.020	0.020	0.006	0.006	1995
27352	Thorold	PM10 185 Queen St S	56	0.005	0.005	0.005	0.020	0.025	0.030	0.038	0.008	0.006	1995
29300	Hamilton	PM10 Elgin/Kelly St	53	0.005	0.014	0.020	0.020	0.030	0.040	0.040	0.018	0.015	1995
29302	Hamilton	PM10 467 Beach Blvd	55	0.005	0.005	0.005	0.020	0.026	0.050	0.050	0.013	0.010	1995
29313	Hamilton	PM10 Gertrude/Depew	53	0.005	0.020	0.030	0.040	0.050	0.074	0.090	0.030	0.023	1995
29324	Hamilton	PM10 Buchanan Park Ps	45	0.005	0.020	0.030	0.058	0.132	0.218	0.280	0.051	0.030	1995
31127	Toronto	PM10 Bay/Grosvenor St	54	0.007	0.008	0.020	0.021	0.032	0.032	0.016	0.012	0.012	1995
33127	Scarborough	PM10 Lawrence/Kennedy	50	0.005	0.005	0.005	0.020	0.030	0.030	0.011	0.015	0.009	1995
35127	Erboboke	PM10 Evans/Arnold	51	0.005	0.005	0.005	0.020	0.020	0.020	0.020	0.007	0.006	1995
44127	Oakville	PM10 Bronte Rd/Woburn Cr	51	0.005	0.005	0.005	0.020	0.030	0.030	0.013	0.010	0.010	1995
46127	Mississauga	PM10 Meadowood Park	59	0.005	0.020	0.030	0.040	0.190	0.370	0.030	0.021	0.021	1995

**TABLE 25 Copper (Cu) in PM10 Statistics (1994-1996)**  
 Unit = micrograms/m<sup>3</sup>

Stn	City	Location	Number of Samples	PERCENTILES						Arith Mean	Geom Mean	Year	
				10%	30%	50%	70%	90%	99%				
56051	Cornwall	PM10 Memorial Pk Bedford/Third	60	0.005	0.005	0.005	0.020	0.021	0.034	0.040	0.012	1995	
62135	Fort Frances	PM10 Legion 250 Church	54	0.005	0.005	0.005	0.025	0.030	0.030	0.030	0.006	1995	
63201	Thunder Bay	PM10 615 James St S	59	0.005	0.005	0.005	0.005	0.030	0.030	0.030	0.006	1995	
71342	Sault Ste Marie	PM10 Bonney St	62	0.005	0.005	0.005	0.029	0.054	0.060	0.060	0.008	1995	
71368	Sault Ste Marie	PM10 Wm Merrifield S	60	0.005	0.005	0.020	0.020	0.030	0.042	0.060	0.015	0.011	1995
77326	Sudbury	PM10 19 Lisgar St	59	0.005	0.011	0.020	0.040	0.162	0.542	0.600	0.065	0.024	1995
12507	Windsor	PM10 Wright/Water St	48	0.005	0.005	0.005	0.020	0.030	0.067	0.090	0.015	0.011	1996
12508	Windsor	PM10 467 University Ave W	49	0.005	0.005	0.005	0.020	0.025	0.030	0.030	0.007	0.006	1996
12513	Windsor	PM10 3665 Wyndotte St E	51	0.005	0.005	0.005	0.020	0.030	0.040	0.040	0.013	0.009	1996
15535	London	PM10 900 Highbury Ave.	45	0.005	0.005	0.005	0.005	0.020	0.040	0.040	0.009	0.007	1996
22304	Nanticoke	PM10 Walpole Ps Sandusk Rd	55	0.005	0.005	0.005	0.014	0.025	0.030	0.030	0.007	0.006	1996
27308	St Catharines	PM10 71 King Street	44	0.005	0.005	0.005	0.020	0.047	0.060	0.060	0.009	0.007	1996
27352	Thorold	PM10 185 Queen St S	43	0.005	0.005	0.005	0.020	0.020	0.030	0.030	0.011	0.008	1996
29300	Hamilton	PM10 Elgin/Kelly St	53	0.020	0.020	0.020	0.030	0.048	0.060	0.070	0.026	0.022	1996
29302	Hamilton	PM10 467 Beach Blvd	54	0.005	0.005	0.005	0.020	0.039	0.050	0.050	0.013	0.010	1996
29313	Hamilton	PM10 Gertrude/Drewey	51	0.005	0.020	0.030	0.050	0.080	0.120	0.120	0.038	0.026	1996
29324	Hamilton	PM10 Buchanan Park Ps	51	0.005	0.005	0.005	0.020	0.060	0.150	0.200	0.024	0.013	1996
31327	Toronto	PM10 Toronto Downtown	24	0.020	0.029	0.030	0.050	0.060	0.075	0.080	0.015	0.008	1996
33127	Scarborough	PM10 Lawrence/Kennedy	26	0.005	0.005	0.005	0.005	0.016	0.020	0.020	0.005	0.005	1996
33127	Etobicoke	PM10 Evans/Arnold	48	0.005	0.005	0.005	0.020	0.030	0.030	0.030	0.008	0.007	1996
44127	Oakville	PM10 Bronte Rd/Woburn Cr	47	0.005	0.005	0.005	0.020	0.025	0.030	0.030	0.011	0.009	1996
46127	Mississauga	PM10 Meadowood Park	53	0.005	0.020	0.030	0.040	0.050	0.070	0.080	0.029	0.023	1996
56051	Cornwall	PM10 Memorial Pk Bedford/Third	44	0.005	0.005	0.020	0.020	0.030	0.046	0.050	0.017	0.013	1996
62135	Fort Frances	PM10 Legion 250 Church	47	0.005	0.005	0.005	0.005	0.013	0.020	0.020	0.005	0.005	1996
63201	Thunder Bay	PM10 615 James St S	54	0.005	0.005	0.005	0.005	0.020	0.020	0.020	0.006	0.006	1996
71342	Sault Ste Marie	PM10 Bonney St	52	0.005	0.005	0.005	0.020	0.035	0.050	0.050	0.008	0.007	1996
71368	Sault Ste Marie	PM10 Wm Merrifield S	53	0.005	0.005	0.005	0.020	0.030	0.035	0.040	0.014	0.010	1996
77326	Sudbury	PM10 19 Lisgar St	50	0.005	0.020	0.025	0.070	0.162	0.396	0.430	0.065	0.029	1996
77570	Copper Cliff	PM10 Market St	31	0.005	0.020	0.050	0.110	0.340	0.4250	0.5000	0.015	0.005	1996

**TABLE 26 Iron (Fe) in PM10 Statistics (1994-1996)**  
Unit: micrograms/m<sup>3</sup>

Site City	Location	Number of Samples	PERCENTILES						Arith. Mean	Geom Mean	Year	
			10%	30%	50%	70%	90%	99%				
12507 Windsor	PM10 Wright/Water St	43	0.40	0.60	0.70	1.00	1.70	2.68	3.10	0.92	1994	
12508 Windsor	PM10 467 University Ave W	46	0.20	0.30	0.50	0.80	1.45	2.33	2.60	0.69	0.51	1994
12513 Windsor	PM10 3665 Wyndotte St E	43	0.20	0.30	0.70	1.84	2.76	7.47	8.60	1.39	0.78	1994
15116 London	PM10 801 Commissioners Rd E	32	0.20	0.20	0.35	0.50	0.70	1.24	1.30	INS	INS	1994
22304 Etobicoke	PM10 Walpole Ps Sandusky Rd	53	0.05	0.10	0.20	0.30	0.50	0.99	1.20	0.25	0.18	1994
27308 St Catharines	PM10 71 King Street	51	0.10	0.20	0.30	0.40	0.80	2.30	3.40	0.43	0.30	1994
27352 Thorold	PM10 185 Queen St S	47	0.30	0.40	0.60	1.10	1.54	2.62	2.90	0.84	0.68	1994
29300 Hamilton	PM10 Elgin/Kelly St	44	0.20	0.30	0.70	1.10	2.24	2.96	3.00	0.91	0.64	1994
29302 Hamilton	PM10 467 Beach Blvd	48	0.20	0.42	0.90	1.40	2.75	3.70	3.70	1.18	0.76	1994
29313 Hamilton	PM10 Gertude/Depew	48	0.27	0.30	1.20	2.09	3.97	8.23	8.70	1.81	1.08	1994
29324 Hamilton	PM10 Buchanan Park Ps	29	0.10	0.20	0.40	0.66	1.04	1.93	2.10	INS	INS	1994
31127 Toronto	PM10 Bay/Grosvenor St	53	0.10	0.30	0.40	0.60	0.80	1.34	1.50	0.50	0.43	1994
46127 Mississauga	PM10 Meadowood Park	53	0.05	0.10	0.20	0.20	0.40	0.65	0.65	0.21	0.16	1994
56051 Cornwall	PM10 Memorial Pk Bedford/Third	44	0.05	0.20	0.20	0.30	0.50	0.30	0.30	0.48	0.21	1994
62135 Fort Frances	PM10 Legion/250 Church	44	0.05	0.10	0.30	0.50	0.77	1.00	1.00	0.36	0.24	1994
63201 Thunder Bay	PM10 615 James St S	41	0.10	0.30	0.40	0.60	1.10	1.46	1.70	0.50	0.37	1994
71342 Sault Ste Marie	PM10 Bonney St	54	0.50	1.00	2.00	3.21	9.01	16.70	22.00	3.30	1.79	1994
71368 Sault Ste Marie	PM10 Wm Mernfield S	56	0.10	0.20	0.40	0.90	1.75	4.24	4.90	0.78	0.43	1994
77326 Sudbury	PM10 19 Lisgar St	50	0.10	0.20	0.30	0.40	0.71	2.63	4.00	0.43	0.29	1994
12507 Windsor	PM10 Wright/Water St	48	0.17	0.40	0.60	1.10	1.76	2.11	2.20	0.81	0.60	1995
12508 Windsor	PM10 467 University Ave W	54	0.20	0.30	0.50	0.70	1.17	1.95	2.00	0.60	0.46	1995
12513 Windsor	PM10 3665 Wyndotte St E	56	0.20	0.35	0.85	1.40	2.65	4.75	5.30	1.18	0.70	1995
15516 London	PM10 801 Commissioners Rd E	50	0.05	0.10	0.20	0.30	0.41	1.20	1.20	0.26	0.19	1995
22304 Etobicoke	PM10 Walpole Ps Sandusky Rd	56	0.05	0.10	0.20	0.45	0.65	1.43	1.70	0.32	0.19	1995
27308 St Catharines	PM10 71 King Street	55	0.05	0.20	0.30	0.40	0.50	0.89	1.00	0.29	0.23	1995
27352 Thorold	PM10 185 Queen St S	56	0.10	0.40	0.60	1.00	1.95	3.23	4.00	0.87	0.57	1995
29300 Hamilton	PM10 Elgin/Kelly St	53	0.12	0.30	0.40	0.84	2.36	3.92	4.70	0.83	0.49	1995
29302 Hamilton	PM10 467 Beach Blvd	55	0.07	0.30	1.00	1.90	2.86	4.05	4.10	1.29	0.68	1995
29313 Hamilton	PM10 Gertude/Depew	53	0.40	0.70	1.40	4.02	7.48	11.00	11.00	3.02	1.62	1995
29324 Hamilton	PM10 Buchanan Park Ps	45	0.10	0.20	0.30	0.50	1.42	2.17	2.30	0.53	0.34	1995
31127 Toronto	PM10 Bay/Grosvenor St	54	0.02	0.02	0.40	0.05	0.77	1.02	1.13	0.42	0.34	1995
33127 Scarborough	PM10 Lawrence/Kennedy	50	0.10	0.20	0.30	0.49	0.70	0.95	1.00	0.35	0.28	1995
35127 Etobicoke	PM10 Evans/Arnold	51	0.20	0.30	0.40	0.60	0.70	1.25	1.30	0.45	0.37	1995
44127 Oakville	PM10 Bronte Rd/Woburn Cr	51	0.10	0.20	0.30	0.50	0.90	1.35	1.70	0.41	0.30	1995
46127 Mississauga	PM10 Meadowood Park	59	0.05	0.10	0.20	0.30	0.40	0.87	1.10	0.23	0.17	1995

**TABLE 26 Iron (Fe) in PM10 Statistics (1994-1996)**  
**Unit: micrograms/m<sup>3</sup>**

Stn	City	Location	Number of Samples	PERCENTILES					Arith. Mean	Geom. Mean	Year
				10%	30%	50%	70%	90%			
56051	Cornwall	PM10 Memorial Pk Bedford/Third	60	0.05	0.10	0.20	0.30	0.40	1.01	1.30	0.16
62135	Fort Frances	PM10 Legion 250 Church	54	0.05	0.10	0.30	0.41	0.90	1.29	1.40	0.38
63201	Thunder Bay	PM10 615 James St S	59	0.10	0.20	0.40	0.66	1.24	2.64	2.70	0.57
71342	Sault Ste Marie	PM10 Bonney St	62	0.30	0.80	1.40	3.11	9.11	21.36	36.00	3.19
71368	Sault Ste Marie	PM10 Win Merrifield S	60	0.10	0.20	0.45	0.80	1.51	3.28	3.40	0.66
77326	Sudbury	PM10 19 Lisegar St	59	0.10	0.20	0.30	0.46	0.72	1.24	1.30	0.38
12507	Windsor	PM10 Wright/Water St	48	0.20	0.50	0.75	1.30	2.26	3.12	3.40	1.03
12508	Windsor	PM10 467 University Ave W	49	0.20	0.30	0.40	0.60	0.90	1.76	2.00	0.53
12513	Windsor	PM10 3665 Wyndotte St E	51	0.30	0.40	0.80	1.10	2.50	8.20	9.00	1.27
15525	London	PM10 900 Highbury Ave.	45	0.10	0.20	0.20	0.30	0.40	0.56	0.60	0.23
22304	Etobicoke	PM10 Walpole P's Sandusk Rd	55	0.05	0.10	0.20	0.20	0.40	0.55	0.60	0.20
27308	Saint Catharines	PM10 71 King Street	44	0.10	0.20	0.30	0.40	0.50	0.83	1.00	0.30
27352	Thornold	PM10 185 Queen St S	43	0.20	0.46	0.60	0.70	1.60	3.24	3.70	0.77
29300	Hamilton	PM10 Elgin/Kelvin St	53	0.20	0.30	0.50	0.84	2.10	4.18	4.80	0.90
29302	Hamilton	PM10 467 Beach Blvd	54	0.10	0.59	1.00	1.30	1.97	3.19	3.30	1.04
29313	Hamilton	PM10 Gertrude/Beaufew	51	0.40	0.80	1.60	3.90	9.80	18.00	20.00	3.76
29324	Hamilton	PM10 Buchanan Park Ps	51	0.10	0.20	0.30	0.60	1.80	3.85	4.20	0.72
31327	Toronto	PM10 Toronto Downtown	24	0.40	0.59	0.85	1.20	1.61	1.80	1.80	0.73
33127	Scarborough	PM10 Lawrence/Kennedy	26	0.08	0.20	0.20	0.30	0.40	0.48	0.50	0.55
35127	Etobicoke	PM10 Evans/Arnold	48	0.20	0.40	0.50	0.60	0.93	1.20	1.20	0.53
44127	Oakville	PM10 Bronte Rd/Woburn Cr	47	0.10	0.20	0.30	0.40	0.60	0.75	0.80	0.34
46127	Mississauga	PM10 Meadowood Park	53	0.05	0.10	0.20	0.30	0.40	0.60	0.70	0.21
56051	Cornwall	PM10 Memorial Pk Bedford/Third	44	0.05	0.10	0.20	0.21	0.30	0.50	0.50	0.19
62135	Fort Frances	PM10 Legion 250 Church	47	0.05	0.10	0.20	0.32	0.76	1.52	1.80	0.33
63201	Thunder Bay	PM10 615 James St S	54	0.07	0.20	0.40	0.70	1.57	2.81	3.60	0.59
71342	Sault Ste Marie	PM10 Bonney St	52	0.30	0.93	2.35	6.18	13.90	35.35	43.00	5.62
71368	Sault Ste Marie	PM10 Win Merrifield S	53	0.05	0.20	0.40	0.70	1.46	3.88	4.30	0.69
77326	Sudbury	PM10 19 Lisegar St	50	0.10	0.20	0.30	0.40	0.70	1.97	3.00	0.38
77570	Copper Cliff	PM10 Market St	31	0.05	0.10	0.20	0.60	0.80	2.24	2.60	0.55

TABLE 27 Manganese (Mn) in PM10 Statistics (1994-1996)

Unit = micrograms/m<sup>3</sup>

Stn	City	Location	Number of Samples	PERCENTILE S						Arith Mean	Geom Mean	Year		
				10%	30%	50%	70%	90%	99%					
12507	Windsor	PM10 Wright/Water St	43	0.010	0.016	0.022	0.028	0.048	0.076	0.088	0.027	0.022	1994	
12508	Windsor	PM10 467 University Ave W	46	0.005	0.012	0.020	0.029	0.042	0.087	0.100	0.024	0.017	1994	
12513	Windsor	PM10 3665 Wyndotte St E	43	0.006	0.014	0.026	0.074	0.186	0.596	0.760	0.077	0.029	1994	
15116	London	PM10 801 Commissioners Rd E	32	0.004	0.008	0.012	0.018	0.030	0.042	0.044	0.044	INS	INS	1994
22304	Nanticoke	PM10 Walpole Ps Sandusk Rd	53	0.001	0.004	0.006	0.012	0.018	0.065	0.082	0.010	0.006	1994	
27308	St Catharines	PM10 71 King Street	51	0.010	0.014	0.016	0.022	0.050	0.112	0.160	0.024	0.018	1994	
27352	Thorold	PM10 185 Queen St S	47	0.015	0.024	0.030	0.046	0.080	0.140	0.140	0.042	0.034	1994	
29300	Hamilton	PM10 Fligin/Kelly St	44	0.015	0.020	0.032	0.065	0.197	0.321	0.330	0.072	0.042	1994	
29302	Hamilton	PM10 467 Beach Blvd	48	0.008	0.023	0.044	0.072	0.116	0.181	0.190	0.056	0.038	1994	
29313	Hamilton	PM10 Gertude/Depew	48	0.013	0.040	0.060	0.100	0.250	0.366	0.380	0.097	0.053	1994	
29324	Hamilton	PM10 Buchanan Park Ps	29	0.008	0.010	0.014	0.032	0.047	0.112	0.130	0.024	0.015	1994	
31127	Toronto	PM10 Bay/Grosvenor St	53	0.012	0.016	0.020	0.025	0.038	0.061	0.076	0.023	0.020	1994	
46127	Mississauga	PM10 Meadowood Park	53	0.001	0.006	0.008	0.011	0.020	0.028	0.028	0.009	0.007	1994	
56051	Cornwall	PM10 Memorial Pk Bedford/Third	44	0.004	0.006	0.008	0.010	0.025	0.324	0.500	0.023	0.009	1994	
62135	Fort Frances	PM10 Legion 250 Church	44	0.001	0.004	0.010	0.014	0.020	0.025	0.028	0.010	0.006	1994	
63201	Thunder Bay	PM10 615 James St S	41	0.006	0.012	0.018	0.024	0.034	0.041	0.044	0.019	0.016	1994	
71342	Sault Ste Marie	PM10 Bonney St	54	0.022	0.068	0.130	0.170	0.301	0.490	0.490	0.138	0.097	1994	
71368	Sault Ste Marie	PM10 Wan Merrifield S	56	0.005	0.010	0.020	0.050	0.097	0.274	0.290	0.043	0.020	1994	
77326	Sudbury	PM10 19 Liseau St	50	0.006	0.008	0.008	0.012	0.022	0.033	0.038	0.011	0.009	1994	
12507	Windsor	PM10 Wright/Water St	48	0.006	0.012	0.021	0.032	0.045	0.064	0.070	0.024	0.018	1995	
12508	Windsor	PM10 467 University Ave W	54	0.006	0.010	0.017	0.024	0.037	0.075	0.082	0.021	0.016	1995	
12513	Windsor	PM10 3665 Wyndotte St E	56	0.004	0.012	0.032	0.064	0.135	0.269	0.280	0.055	0.025	1995	
15516	London	PM10 801 Commissioners Rd E	50	0.001	0.006	0.010	0.014	0.020	0.050	0.052	0.012	0.003	1995	
22304	Nanticoke	PM10 Walpole Ps Sandusk Rd	56	0.001	0.004	0.008	0.014	0.025	0.037	0.042	0.011	0.008	1995	
27308	St Catharines	PM10 71 King Street	55	0.006	0.012	0.016	0.020	0.024	0.043	0.048	0.016	0.014	1995	
27352	Thorold	PM10 185 Queen St S	56	0.010	0.018	0.030	0.055	0.104	0.234	0.250	0.050	0.031	1995	
29300	Hamilton	PM10 Fligin/Kelly St	53	0.010	0.018	0.028	0.049	0.118	0.229	0.260	0.050	0.032	1995	
29302	Hamilton	PM10 467 Beach Blvd	55	0.005	0.024	0.048	0.090	0.140	0.178	0.200	0.062	0.033	1995	
29313	Hamilton	PM10 Gertude/Depew	53	0.022	0.060	0.110	0.244	0.478	0.912	1.000	0.200	0.133	1995	
29324	Hamilton	PM10 Buchanan Park Ps	45	0.006	0.010	0.018	0.022	0.084	0.126	0.130	0.028	0.016	1995	
31127	Toronto	PM10 Bay/Grosvenor St	54	0.009	0.013	0.016	0.022	0.034	0.050	0.057	0.020	0.016	1995	
33127	Scarborough	PM10 Lawrence/Kennedy	50	0.006	0.010	0.012	0.021	0.030	0.049	0.050	0.017	0.012	1995	
35127	Elliott Lake	PM10 Evans/Arnold	51	0.010	0.016	0.024	0.028	0.040	0.053	0.054	0.024	0.021	1995	
44127	Oakville	PM10 Bronte Rd/Woburn Cr	51	0.004	0.008	0.016	0.020	0.038	0.055	0.060	0.018	0.013	1995	
46127	Mississauga	PM10 Meadowood Park	59	0.001	0.005	0.008	0.012	0.022	0.035	0.038	0.010	0.007	1995	

**TABLE 27 Manganese (Mn) in PM<sub>10</sub> Statistics (1994-1996)**

Unit = micrograms/m<sup>3</sup>

Stn	City	Location	Number of Samples	PERCENTILES						Arith Mean	Geom Mean	Year	
				10%	30%	50%	70%	90%	99%				
56051	Cornwall	PM10 Memorial Pk Bedford/Third	60	0.001	0.004	0.006	0.011	0.016	0.032	0.036	0.009	0.006	1995
62135	Fort Frances	PM10 Legion 250 Church	54	0.001	0.004	0.008	0.012	0.023	0.035	0.036	0.010	0.007	1995
63201	Thunder Bay	PM10 615 James St S	59	0.001	0.011	0.016	0.020	0.036	0.065	0.080	0.018	0.012	1995
71342	Sault Ste Marie	PM10 Bonney St	62	0.017	0.048	0.091	0.157	0.318	0.725	0.920	0.143	0.082	1995
71368	Sault Ste Marie	PM10 Wm Mervinfield S	60	0.006	0.012	0.022	0.045	0.073	0.140	0.190	0.034	0.021	1995
77326	Sudbury	PM10 19 Ligar St	59	0.004	0.008	0.010	0.012	0.020	0.032	0.038	0.011	0.009	1995
12507	Windsor	PM10 Wright/Waer St	48	0.010	0.020	0.024	0.036	0.051	0.067	0.074	0.028	0.023	1996
12508	Windsor	PM10 467 University Ave W	49	0.006	0.010	0.012	0.019	0.030	0.042	0.042	0.015	0.013	1996
12513	Windsor	PM10 3665 Wyndotte St E	51	0.008	0.016	0.028	0.044	0.130	0.385	0.440	0.055	0.027	1996
15525	London	PM10 900 Highway Ave.	45	0.001	0.008	0.012	0.014	0.019	0.030	0.034	0.011	0.008	1996
22304	Nanaimo	PM10 Walpole Ps Sandusk Rd	55	0.001	0.004	0.006	0.010	0.015	0.020	0.020	0.007	0.005	1996
27308	St Catharines	PM10 71 King Street	44	0.008	0.012	0.015	0.020	0.026	0.066	0.078	0.018	0.015	1996
27352	Thorold	PM10 185 Queen St S	43	0.010	0.020	0.026	0.032	0.062	0.145	0.170	0.033	0.023	1996
29300	Hamilton	PM10 Elgin/Kelly St	53	0.014	0.020	0.038	0.062	0.154	0.488	0.550	0.072	0.040	1996
29302	Hamilton	PM10 467 Beach Blvd	54	0.007	0.032	0.047	0.062	0.092	0.145	0.150	0.050	0.033	1996
29313	Hamilton	PM10 Gertrude/Dempw	51	0.022	0.044	0.086	0.260	0.650	1.265	1.600	0.241	0.111	1996
29324	Hamilton	PM10 Buchanan Park Ps	51	0.006	0.010	0.016	0.034	0.120	0.230	0.240	0.040	0.021	1996
31327	Toronto	PM10 Toronto Downtown	24	0.023	0.030	0.034	0.044	0.059	0.074	0.076	0.015	0.005	1996
33127	Scarborough	PM10 Lawrence/Kennedy	26	0.004	0.010	0.012	0.015	0.018	0.023	0.024	0.007	0.004	1996
35127	Etobicoke	PM10 Evans/Arnold	48	0.016	0.022	0.030	0.041	0.054	0.056	0.056	0.027	0.025	1996
44127	Oakville	PM10 Bronte Rd/Woburn Cr	47	0.006	0.012	0.014	0.022	0.026	0.042	0.050	0.017	0.014	1996
46127	Mississauga	PM10 Meadowood Park	53	0.001	0.006	0.008	0.012	0.016	0.022	0.024	0.009	0.007	1996
56051	Cornwall	PM10 Memorial Pk Bedford/Third	44	0.001	0.004	0.006	0.008	0.011	0.021	0.022	0.007	0.005	1996
62135	Fort Frances	PM10 Legion 250 Church	47	0.001	0.001	0.004	0.010	0.019	0.035	0.042	0.008	0.004	1996
63201	Thunder Bay	PM10 615 James St S	54	0.002	0.008	0.013	0.020	0.043	0.094	0.119	0.011	0.006	1996
71342	Sault Ste Marie	PM10 Bonney St	52	0.016	0.059	0.120	0.217	0.414	0.744	0.780	0.180	0.096	1996
71368	Sault Ste Marie	PM10 Wm Mervinfield S	53	0.004	0.008	0.016	0.031	0.084	0.222	0.290	0.035	0.016	1996
77326	Sudbury	PM10 19 Ligar St	50	0.004	0.008	0.012	0.018	0.033	0.038	0.041	0.009	0.006	1996
77570	Copper Cliff	PM10 Market St	31	0.001	0.004	0.006	0.012	0.019	0.020	0.020	0.005	0.004	1996

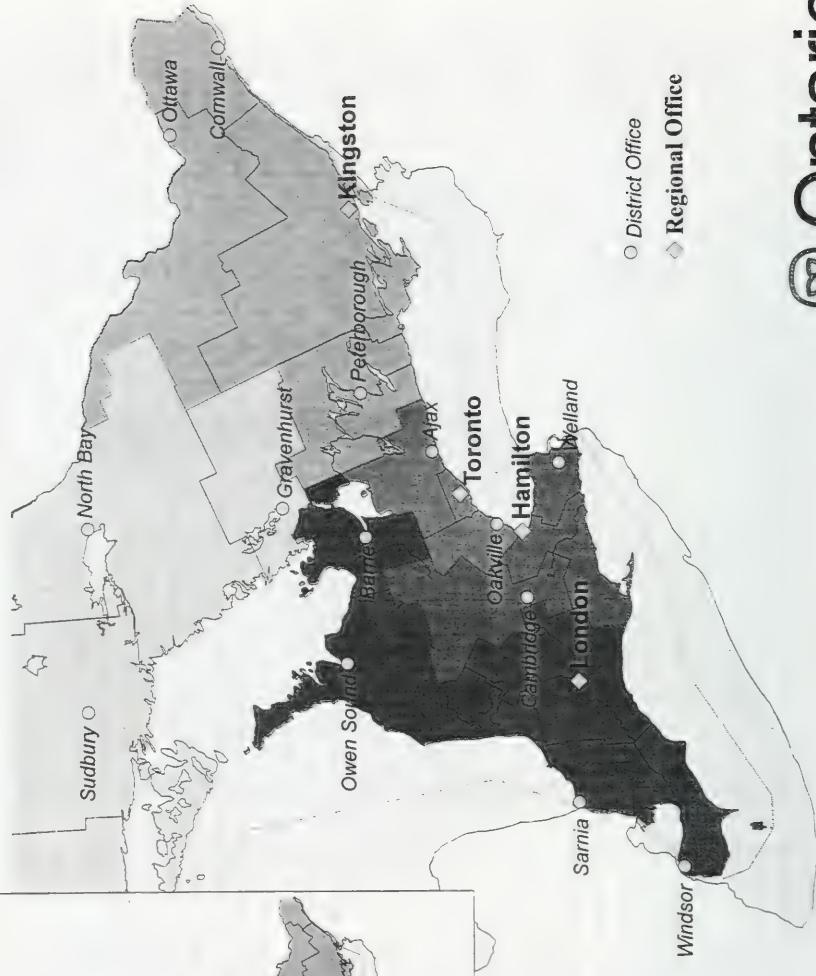
**TABLE 28 Sulphate ( $\text{SO}_4^2-$ ) in PM10 Statistics (1994-1996)**  
 Unit =micrograms/m<sup>3</sup>

Stn	City	Location	Number of Samples	P E R C E N T I L E S						Arith Mean	Geom Mean	Year	
				10%	30%	50%	70%	90%	99%				
12507	Windsor	PM10 Wight/Water St	35	2.0	2.9	5.3	6.1	11.2	15.7	16.2	INS	1994	
12508	Windsor	PM10 467 University Ave W	37	1.6	2.6	4.7	5.8	13.9	23.1	24.4	INS	1994	
12513	Windsor	PM10 3665 Wyndotte St E	35	1.6	3.3	5.1	7.4	13.7	16.5	16.6	INS	1994	
15516	London	PM10 801 Commissioner Rd E	30	1.2	2.4	3.2	4.9	8.3	19.2	19.9	INS	1994	
22304	Nanticoke	PM10 Walpole Ps Sandusky Rd	45	1.3	2.3	3.1	5.0	9.1	17.6	20.3	4.6	3.5	1994
27308	St Catharines	PM10 71 King Street	44	1.5	2.5	3.6	5.2	11.6	15.4	15.7	5.1	3.9	1994
27352	Thorold	PM10 185 Queen St S	47	1.6	2.6	3.4	5.8	12.6	16.5	17.7	5.3	3.9	1994
29300	Hamilton	PM10 Elgin/Kelly St	44	1.4	3.1	4.5	6.3	10.5	18.7	18.9	5.5	4.2	1994
29302	Hamilton	PM10 467 Beach Blvd	48	2.0	3.3	5.4	6.3	9.6	21.1	22.4	5.7	4.6	1994
29313	Hamilton	PM10 Gertude/Depew	48	2.5	4.0	5.1	6.5	10.0	19.5	21.9	5.9	5.0	1994
29324	Hamilton	PM10 Buchanan Park Ps	29	2.1	3.3	4.6	5.8	8.4	11.2	11.8	INS	INS	1994
31127	Toronto	PM10 Bay/Grosvenor St	48	1.1	2.1	3.7	5.6	7.8	17.7	20.4	4.5	3.3	1994
46127	Mississauga	PM10 Meadowood Park	46	1.2	1.9	3.3	5.2	10.5	19.4	22.7	4.7	3.2	1994
56051	Conwall	PM10 Memorial Pk/Bedford/Third	44	1.5	2.4	4.4	6.3	9.5	18.6	20.2	5.3	4.1	1994
62135	Fort Frances	PM10 Legion 250 Church	39	0.6	1.0	1.5	2.0	5.8	9.3	9.7	INS	INS	1994
63201	Thunder Bay	PM10 615 James St S	37	0.6	0.9	1.6	2.2	4.2	6.2	6.6	INS	INS	1994
71342	Sault Ste Marie	PM10 Bonney St	37	1.1	1.8	4.0	7.1	10.3	16.6	18.8	INS	INS	1994
71368	Sault Ste Marie	PM10 Wm Merrifield St	38	1.0	2.0	3.4	6.5	12.2	14.2	14.2	INS	INS	1994
77326	Sudbury	PM10 19 Ligar St	31	1.1	1.7	2.7	4.0	6.6	8.3	8.4	INS	INS	1994
12507	Windsor	PM10 Wright/Water St	44	1.5	2.4	3.0	3.8	7.5	11.7	12.3	4.0	3.2	1995
12508	Windsor	PM10 467 University Ave W	50	1.7	2.2	3.5	4.6	8.4	12.2	13.2	4.3	3.4	1995
12513	Windsor	PM10 3665 Wyndotte St E	51	1.7	2.0	3.8	6.3	11.5	18.0	20.1	5.2	3.8	1995
15516	London	PM10 801 Commissioner Rd E	45	1.2	1.8	3.3	4.3	9.7	16.4	17.4	4.5	3.2	1995
22304	Nanticoke	PM10 Walpole Ps Sandusky Rd	56	1.3	2.1	2.9	4.5	8.5	13.8	15.2	4.1	3.1	1995
27308	St Catharines	PM10 71 King Street	55	1.2	1.9	2.5	3.8	8.1	12.4	13.3	3.6	2.8	1995
27352	Thorold	PM10 185 Queen St S	56	1.5	2.0	2.8	4.2	7.5	14.0	14.3	3.9	3.0	1995
29300	Hamilton	PM10 Elgin/Kelly St	52	1.6	2.2	3.2	4.7	10.2	18.7	24.3	4.6	3.5	1995
29302	Hamilton	PM10 467 Beach Blvd	55	1.4	2.8	4.2	5.5	9.3	16.9	17.6	4.9	3.9	1995
29313	Hamilton	PM10 Gertude/Depew	53	1.9	2.7	4.0	5.6	10.3	17.3	19.9	5.1	4.1	1995
29324	Hamilton	PM10 Buchanan Park Ps	46	1.7	2.2	3.5	4.9	10.5	22.9	29.7	5.0	3.7	1995
31127	Toronto	PM10 Bay/Grosvenor St	45	1.3	1.5	2.4	4.2	7.4	10.2	10.7	3.4	2.6	1995
33127	Scarborough	PM10 Lawrence/Kennedy	50	0.7	1.6	2.2	3.6	7.2	11.3	11.8	3.2	2.2	1995
35127	Etobicoke	PM10 Evans/Arnold	51	1.1	1.8	2.6	3.9	6.5	10.9	11.0	3.5	2.7	1995

**TABLE 28 Sulphate ( $\text{SO}_4^{2-}$ ) in PM<sub>10</sub> Statistics (1994-1996)**  
**Unit =micrograms/m<sup>3</sup>**

Stn	City	Location	Number of Samples	P E R C E N T I L E S						Arith Mean	Geom Mean	Year	
				10%	30%	50%	70%	90%	99%				
44127	Oakville	PM10 Bronte Rd/Woburn Cr	46	1.2	2.1	2.6	4.4	10.6	14.8	14.9	4.2	3.1	1995
46127	Mississauga	PM10 Meadowood Park	54	1.1	1.7	2.4	3.6	9.0	12.5	13.2	3.7	2.6	1995
56051	Conwall	PM10 Memorial Pk/Bedford/Third	60	1.0	2.2	3.3	4.8	8.3	25.9	40.4	4.9	3.3	1995
62135	Port Frances	PM10 Legion/250 Church	54	1.0	1.4	1.9	2.3	5.3	8.9	10.0	2.4	1.9	1995
63201	Thunder Bay	PM10 615 James St S	59	0.7	0.9	1.5	2.0	3.1	5.1	5.2	1.7	1.4	1995
71342	Sault Ste Marie	PM10 Bonney St	60	0.9	1.7	2.9	5.2	12.4	26.7	37.4	5.0	3.1	1995
71368	Sault Ste Marie	PM10 Wm Mennifield S	58	0.8	1.3	1.6	2.2	4.8	10.6	13.0	2.4	1.8	1995
77326	Sudbury	PM10 19 Lisgar St	57	0.8	1.3	1.6	2.2	3.8	9.5	9.9	2.2	1.7	1995
12507	Windsor	PM10 Weight/Water St	48	2.8	3.9	5.1	5.6	8.3	15.1	20.6	5.2	4.7	1996
12508	Windsor	PM10 467 University Ave W	49	1.8	2.6	3.9	4.6	6.8	17.1	19.3	4.3	3.5	1996
12513	Windsor	PM10 3665 Wyndotte St E	51	2.2	3.0	4.4	5.3	7.1	16.7	18.1	4.8	4.1	1996
15525	London	PM10 900 Highbury Ave.	45	1.2	2.2	3.2	3.9	6.6	10.7	11.8	3.6	2.9	1996
22304	Nananticoke	PM10 Walpole P's Sandusk Rd	55	1.3	2.6	3.3	4.2	6.0	21.4	33.1	4.1	3.1	1996
27308	St Catharines	PM10 71 King Street	44	1.6	2.7	3.4	4.6	7.8	23.6	34.3	4.6	3.5	1996
27352	Thorold	PM10 185 Queen St S	43	1.9	2.9	3.8	4.8	7.3	14.7	18.5	4.3	3.7	1996
29300	Hamilton	PM10 Elgin/Kelly St	53	1.5	2.6	4.2	5.5	9.0	28.0	38.3	5.3	3.9	1996
29302	Hamilton	PM10 467 Beach Blvd	54	2.1	2.9	3.9	4.9	7.2	19.1	28.4	4.6	3.8	1996
29313	Hamilton	PM10 Grafton/Depew	51	2.1	3.2	4.2	5.4	9.4	25.7	33.1	5.5	4.4	1996
29324	Hamilton	PM10 Buchanan Park Ps	51	1.4	2.5	3.8	4.8	8.6	21.9	28.4	5.0	3.7	1996
31327	Toronto	PM10 Toronto Downtown	24	1.9	2.8	3.5	4.5	6.2	7.6	7.9	INS	INS	1996
33127	Scarborough	PM10 Lawrence/Kennedy	26	1.1	1.4	1.9	2.3	3.7	3.9	3.9	INS	INS	1996
35127	Elinvale	PM10 Evans/Arnold	48	1.7	2.5	3.6	4.4	5.6	21.5	31.1	4.2	3.4	1996
44127	Oakville	PM10 Bronte Rd/Woburn Cr	47	1.6	2.4	3.2	4.2	6.9	25.3	33.9	4.4	3.3	1996
46127	Mississauga	PM10 Meadowood Park	53	1.4	2.4	3.2	3.9	8.7	23.1	33.2	4.4	3.2	1996
56051	Conwall	PM10 Memorial Pk/Bedford/Third	48	2.0	3.2	4.0	6.2	12.4	24.8	29.3	6.0	4.4	1996
62135	Port Frances	PM10 Legion/250 Church	47	0.7	1.1	1.6	2.0	7.9	24.2	28.1	3.3	1.8	1996
63201	Thunder Bay	PM10 615 James St S	54	0.5	0.9	1.4	2.1	4.0	9.7	14.4	2.0	1.4	1996
71342	Sault Ste Marie	PM10 Bonney St	52	1.1	2.6	3.6	6.2	11.7	24.9	25.5	5.7	3.8	1996
71368	Sault Ste Marie	PM10 Wm Mennifield S	53	0.7	1.4	2.2	3.3	5.5	7.8	7.9	2.7	2.0	1996
77326	Sudbury	PM10 19 Lisgar St	50	0.7	1.7	2.1	2.5	4.6	10.9	15.7	2.6	1.9	1996
77570	Copper Cliff	PM10 Market St	31	0.5	1.2	1.7	2.7	4.5	13.5	16.8	INS	INS	1996

# MAP1 Location of Provincial Regional Boundaries (1996)

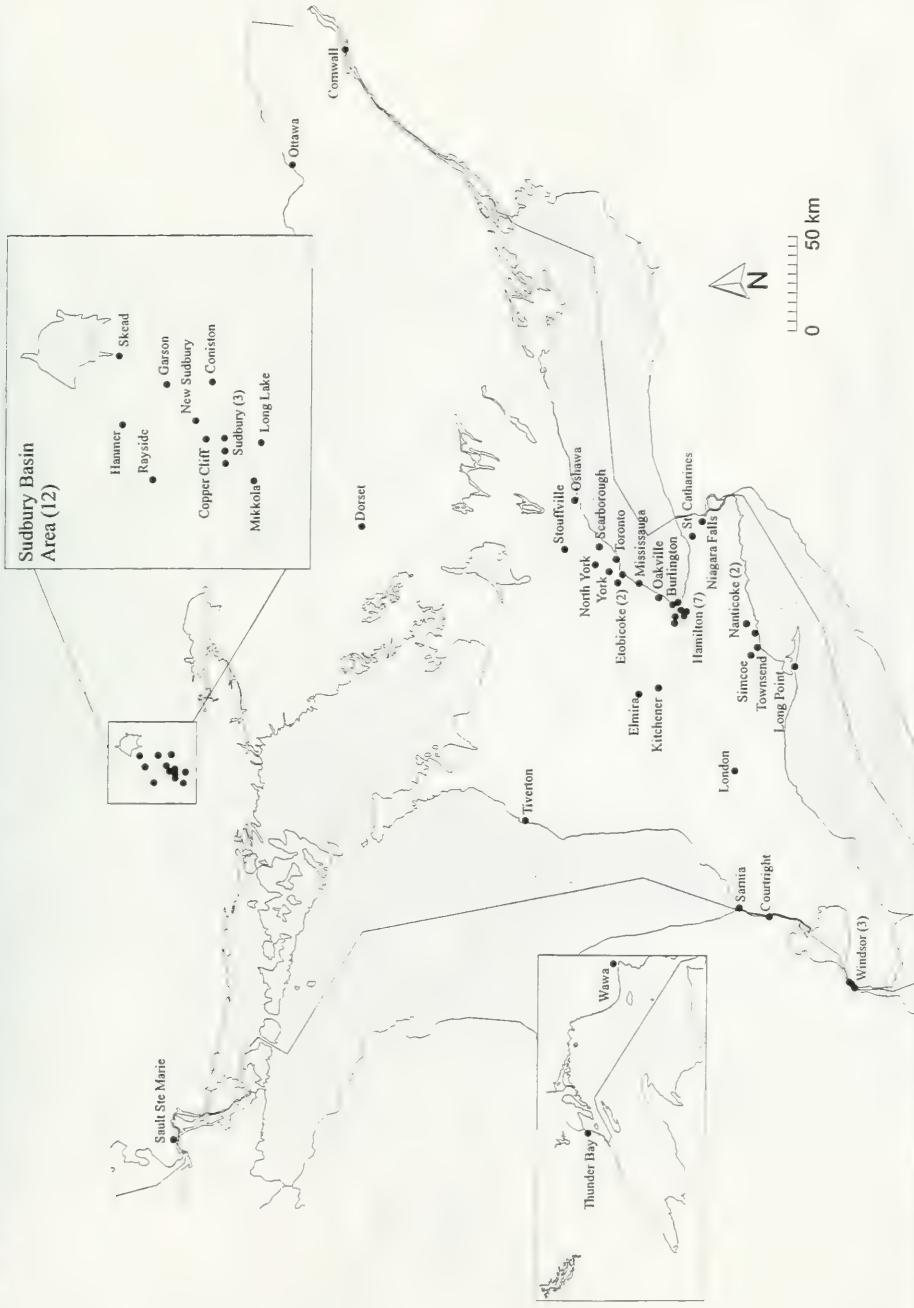


**Regions**

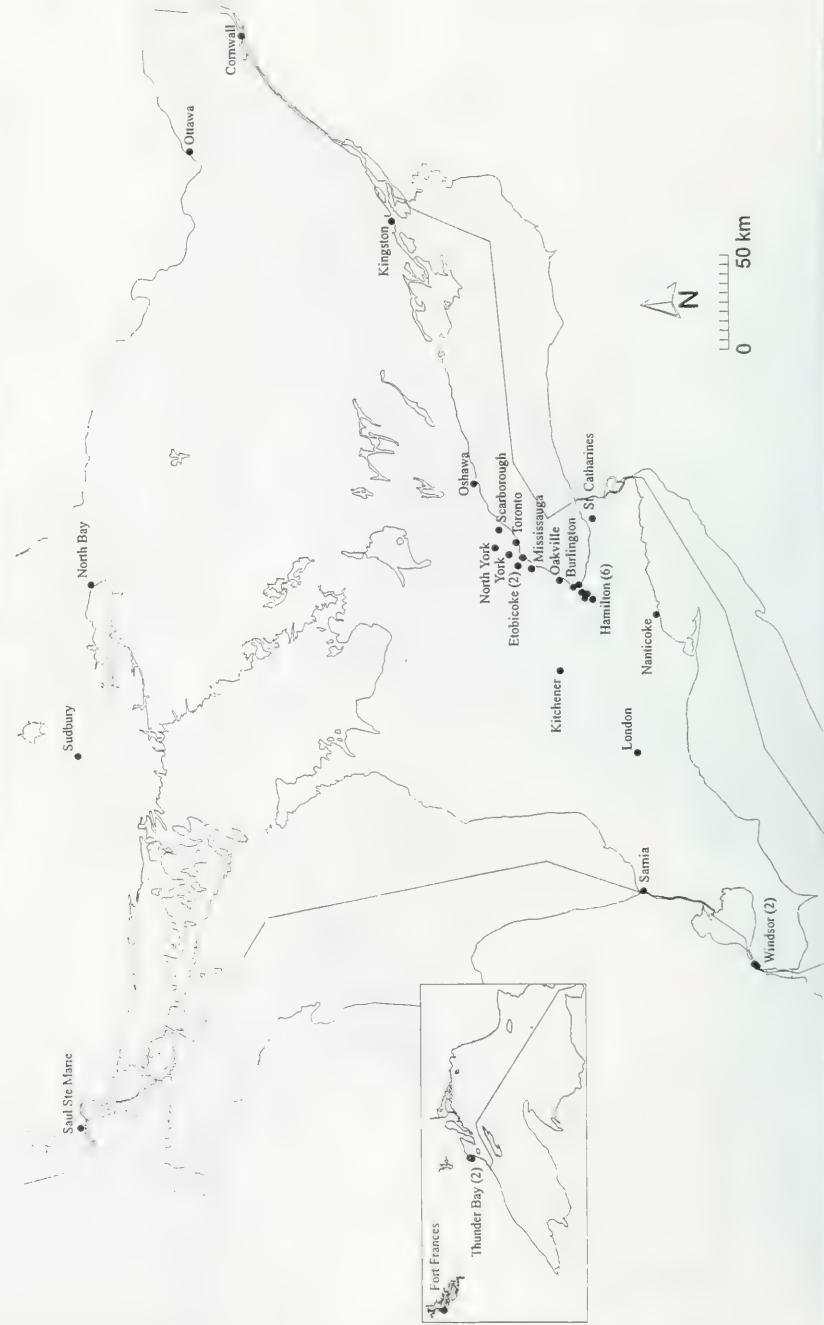
- Central
- West Central
- Southwestern
- Northern
- Eastern

- District Office
- ◇ Regional Office

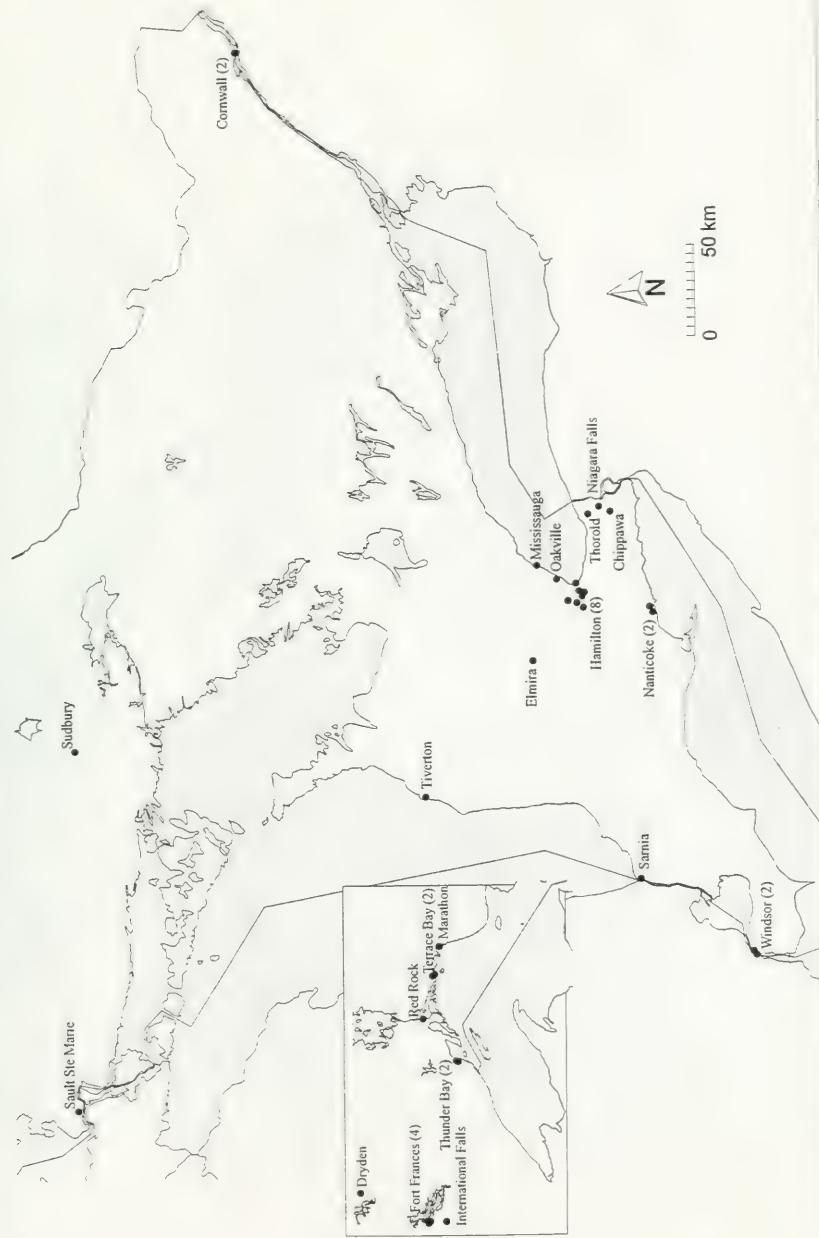
## MAP2 Location of Provincial Continuous SO<sub>2</sub> Air Monitoring Stations (1996)



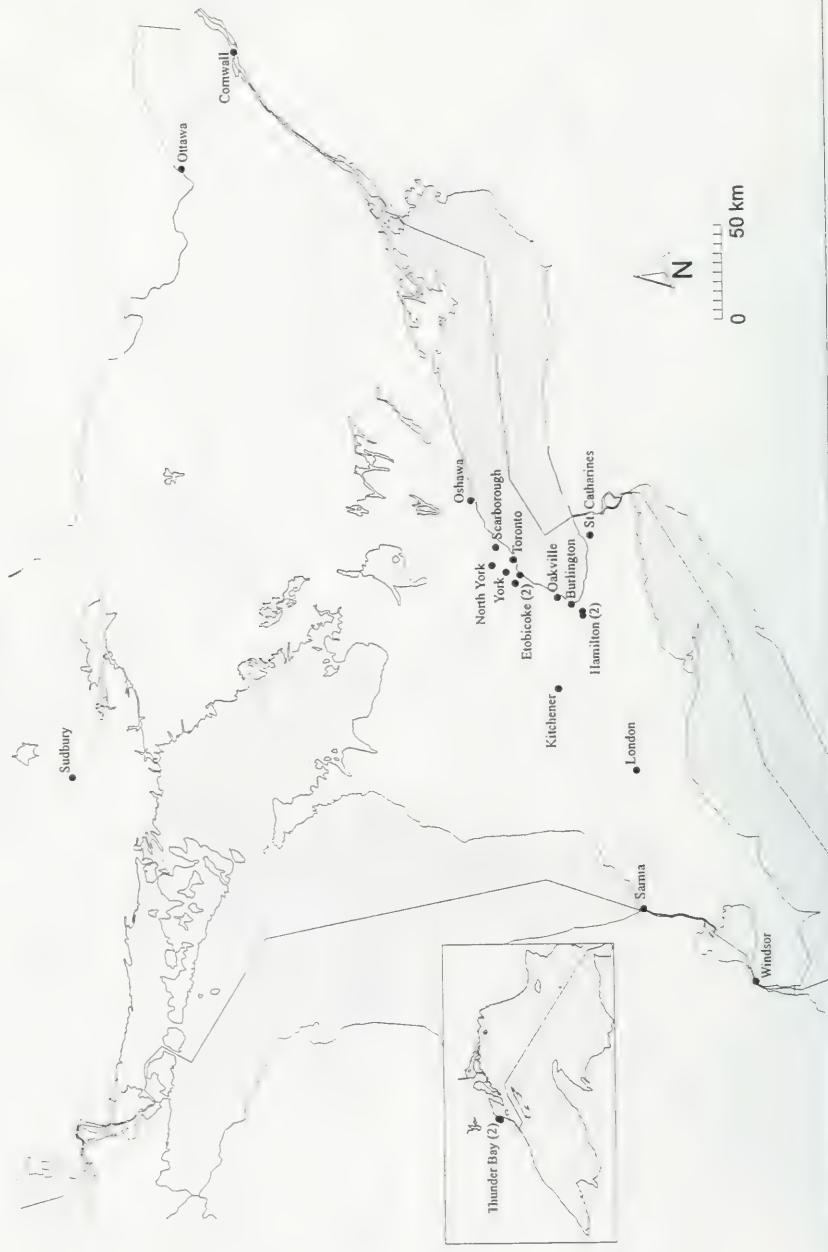
## MAP 3 Location of Provincial Continuous SP (as COH) Air Monitoring Stations (1996)



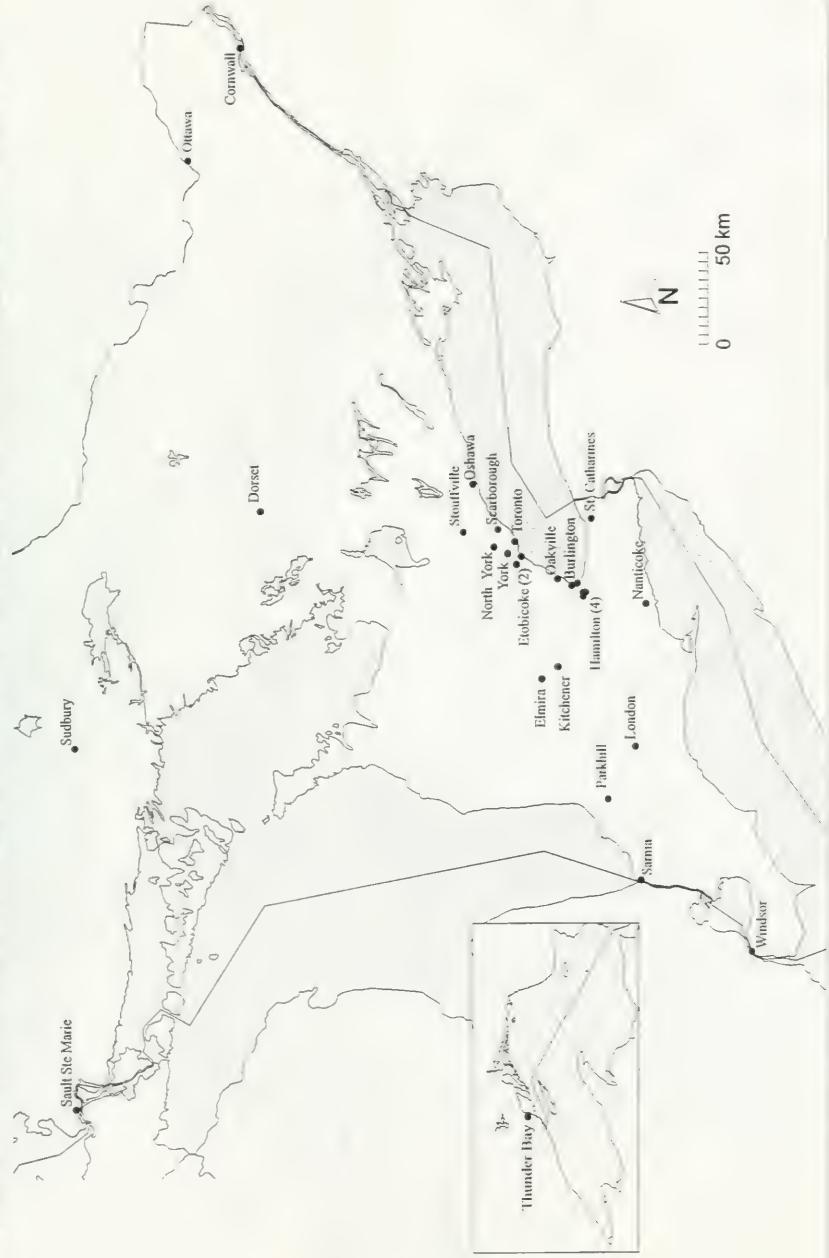
## MAP4 Location of Provincial Continuous TRS Air Monitoring Stations (1996)



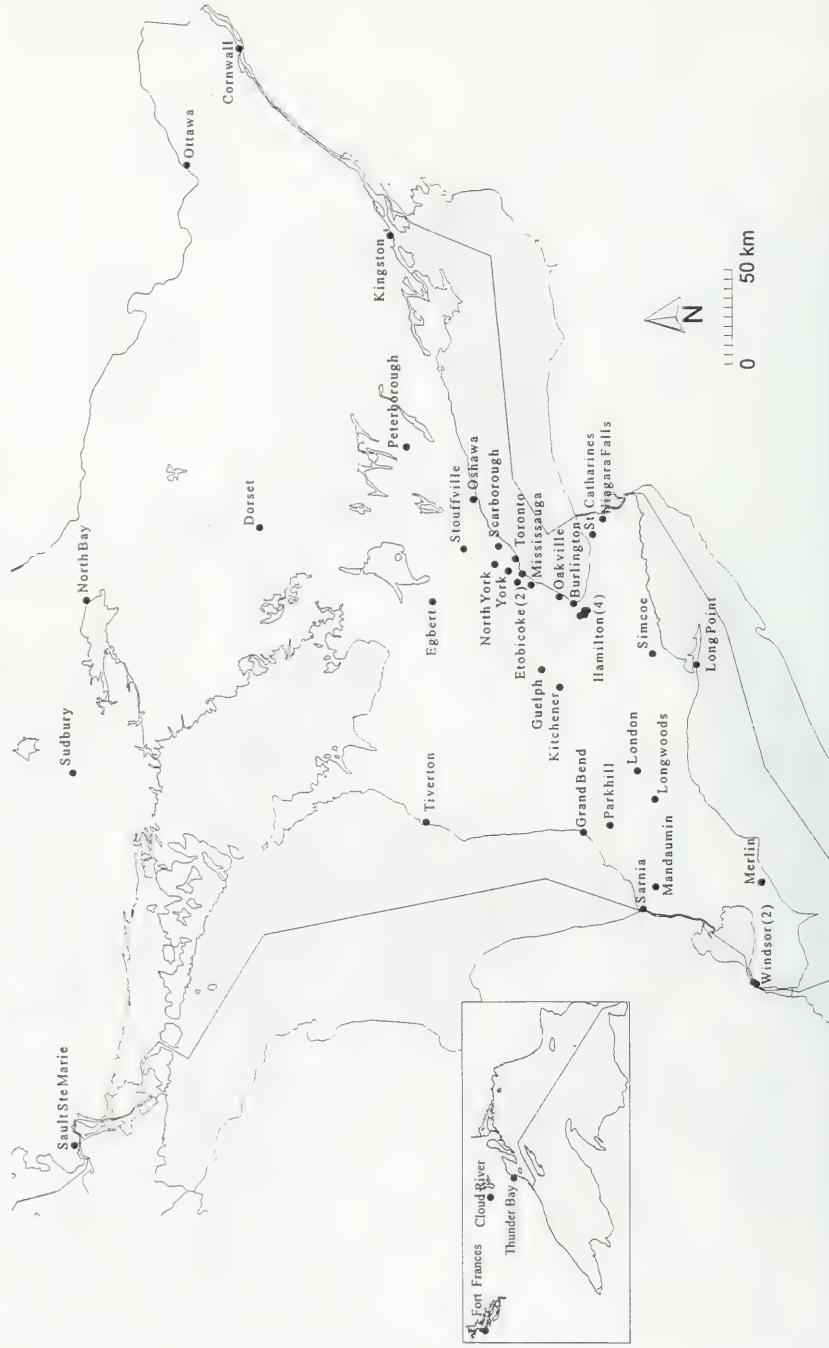
## MAP5 Location of Provincial Continuous CO Air Monitoring Stations (1996)



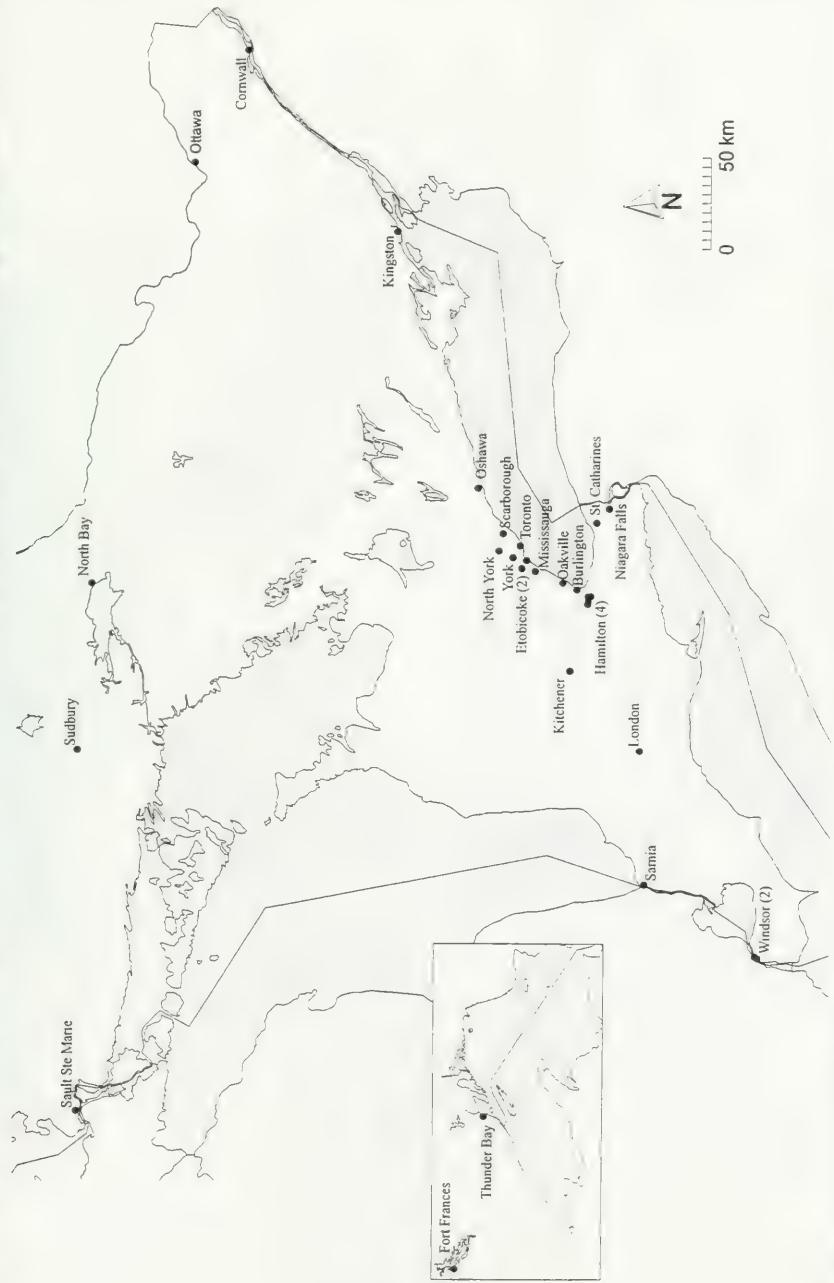
## MAP6 Location of Provincial Continuous NO<sub>2</sub> Air Monitoring Stations (1996)



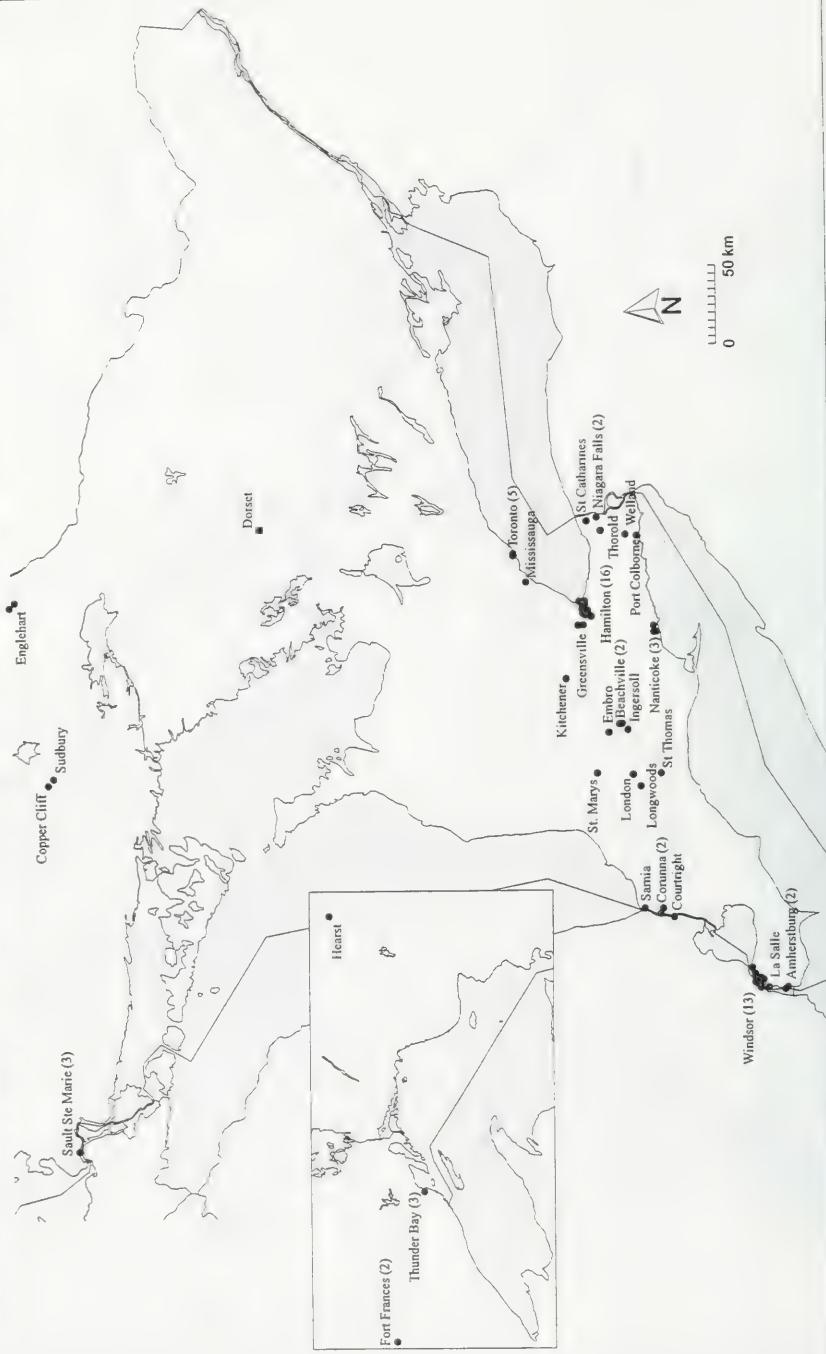
## MAP7 Location of Provincial Continuous O<sub>3</sub> Air Monitoring Stations (1996)



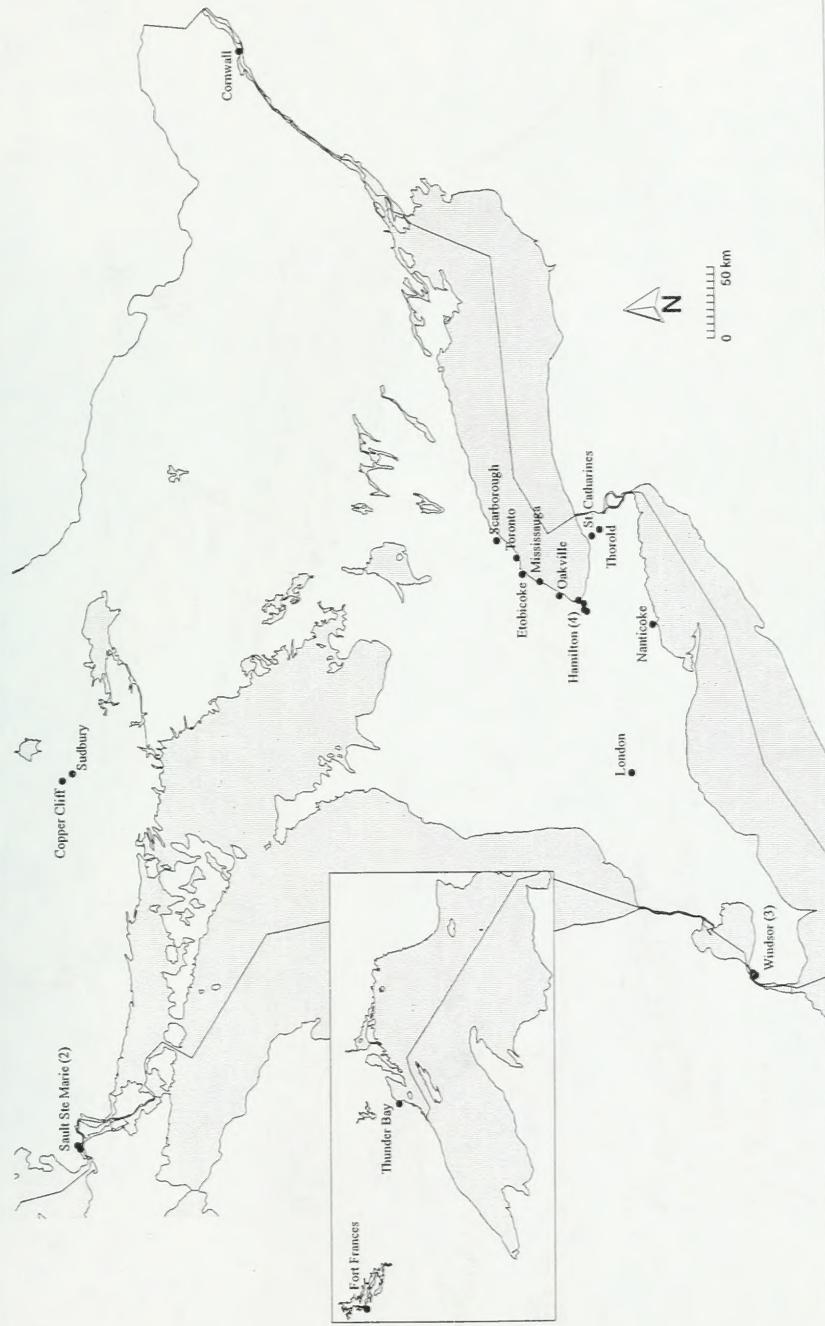
## Map8 Location of Provincial Continuous AQI Air Monitoring Stations (1996)



## MAP9 Location of Provincial 24-Hour TSP Air Monitoring Stations (1996)



## MAP10 Location of Provincial 24-Hour PM<sub>10</sub> Air Monitoring Stations (1996)



## MAP11 Location of Provincial Continuous MET Air Monitoring Stations (1996)

